

imposa

IMPOSA Pro Tour Series



Installation Manual

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1. Safety

Before installing an IMPOSA Pro Tour Series display, one is required to read this chapter carefully to obtain important information as to how to prevent personal injury and to protect the display from damage during installation.

Overview

- Guidelines
- Safety instructions

1.1 Guidelines

- Before installing the display, make sure you have read the User's Manual with full understanding.
- Installation must be performed by authorized and qualified technical personnel only.
- The installation site must be solid and without any chance of sinking, tumbling or falling. It must be at the same time free of over-heat, radiation, pollution, corrosion or gas release.
- Only use components provided by the Manufacturer or those approved or specified by the Manufacturer during installation of IMPOSA Pro Tour Series display's.
- Do not modify and/or replicate any component or accessory without permit from the Manufacturer.
- Always follow all installation instructions. Please contact the Manufacture if any problem arises.

1.2 Safety Instructions

Product care

- All parts must be fully protected and packed in good order during transportation, storage, etc. No external pressure shall be applied on them.
- No part of the product can come into contact with rain before or during installation. Keep them in dry and clean places.
- All parts must be prevented from being trampled or dropped. Follow all instructions while carrying or moving the parts. Otherwise the product can be subject to terminal damage.

Installation

- Before installation, ensure that the supporting structure or frame has sufficient strength to hold the display firm and safe.
- For hoist installation, the operator must follow all instructions given in this User's Manual, including where the hoist brackets should be located, that the crane used must come with sufficient capability to hoist the product, and that the operating ground must have the strength to sustain the crane, etc.
- In case any injury; please wear gloves when moving cabinet.
- Please be careful when you climb up the screen and perform maintenance or installation operations.
 - All screws should be fixed tightly when screen is fixed on ground.

Usage

- LEDs on the display cannot be pressured at any time. Otherwise they can be damaged permanently.
- Follow the steps mentioned in the User Manual while cleaning the front side of the display. Only a soft cloth or brush, neutral detergent and water are to be applied to the display.
- Power must be 100% off before dismantling any part for maintenance.

2 Installation Requirements

This chapter covers requirements for installation, power supply and the control system of the IMPOSA Pro Tour Series display.

Overview

- Mechanical requirements
- Electrical requirements
- System requirements

2.1 Mechanical Requirements

Weight

Make sure both the floor and the supporting structure can support five times of the weight of the entire display. One cabinet weighs approximately 23 Kg. The weight of supporting structure and the hanging beams should also be considered.

Horizontal Plane

For seat installation, the installation surface must be horizontal. Never install the display on a downward or upward slope.

2.2 Electrical Requirements

Power Requirements

Operates at AC 100-240V, 50~60Hz, 600W. Also provided is the power supply unit (PSU) for the display, which can meet this requirement. Please contact the Manufacturer for more information on the power requirements of Pro Tour Series display.

Power System

The power system of the display should be equipped with a circuit breaker and ground fault interrupter. This installation should be in accordance with the local regulations for power installation.

2.3 System Requirements for the Control Software

Operation System Requirements

PC System requirements:

- CPU Pentium IV or equivalent, 1GHz
- 512Mb DDR RAM
- Free hard disk space 300MB
- Resolution 1024x768
- Windows XP Professional or Win7

Recommended PC System requirements:

- CPU Pentium IV, 2.4 GHz or above
- 2G DDR RAM
- Free hard disk space 100G
- Resolution 1920x1080
- Win7

3. IMPOSA Pro Tour Series Cabinet

This chapter introduces the overall structure of the cabinet, module specifications and the control box. There are two kinds of Pro Tour Series rental cabinets, Pro Tour Series I and Pro Tour Series II. The cabinets of Pro Tour Series I can bend by $\pm 15^\circ$ on both sides to form a curved display. Pro Tour Series II is almost the same as Pro Tour Series I, except it cannot bend.

Overview

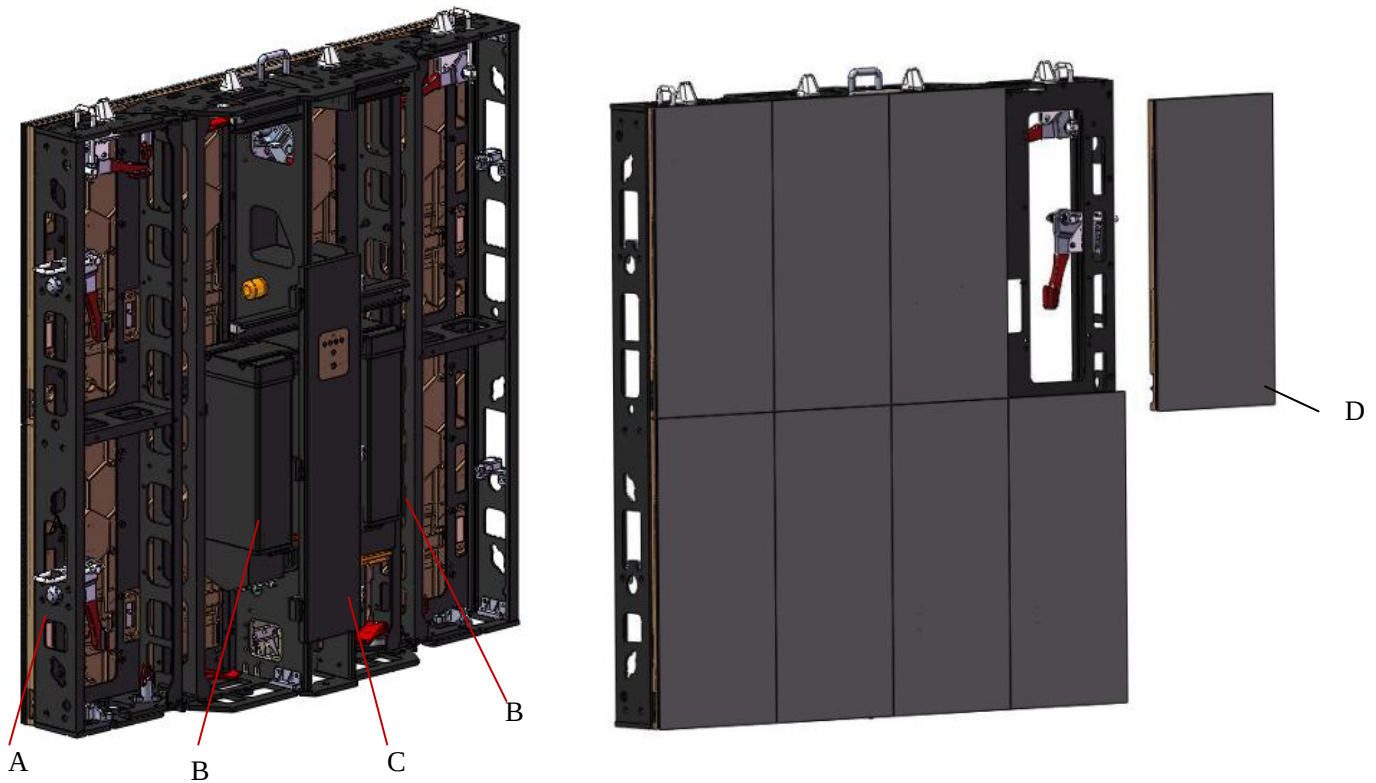
- Pro Tour Series Cabinet Structure
- Pro Tour Series Module Specifications
- Control Box

3.1 Cabinet Structure

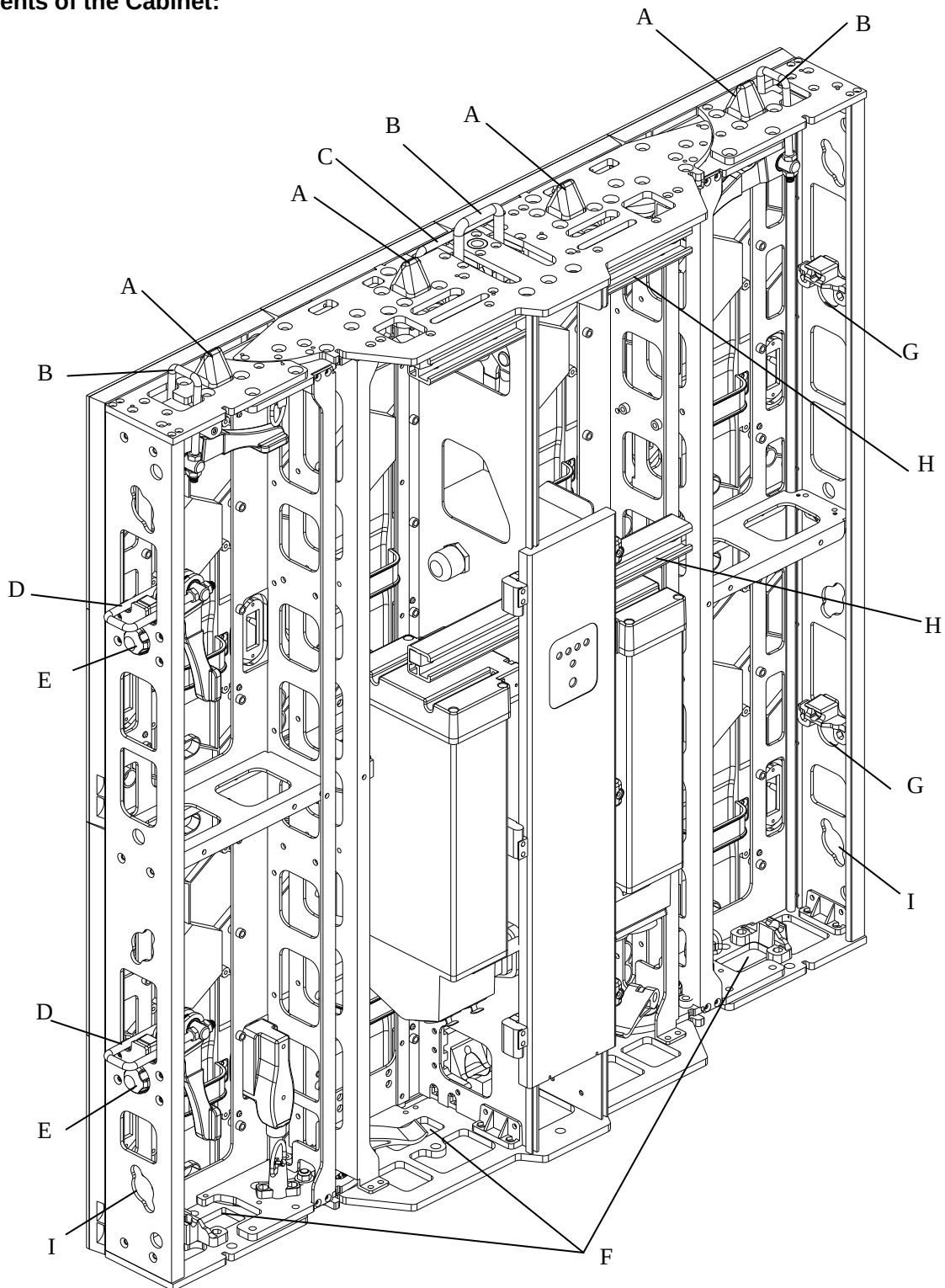
Pro Tour Series Cabinet Structure:

Structured by aluminum and steel, Pro Tour Series cabinets are rugged, robust and light weight. Each cabinet carries eight modules on the front. There are four positioning cones and three buckles on top of the cabinet. With two positioning cones and two buckles on the left, this design can realize precise positioning and fast installation and dismantling. There is a hidden handle on top of the cabinet which is for moving or carrying. There is a gauge for the measurement of bending on top of the cabinet, which is for fast positioning when clients install a curved display.

Cabinet Drawings:



- A: Pro Tour Series Cabinet
B: Power Box
C: Control Box
D: Pro Tour Series Module

Components of the Cabinet:

A: Positioning Cones on the top

B: Buckles on the top

C: Handle

D: Buckles on the sides

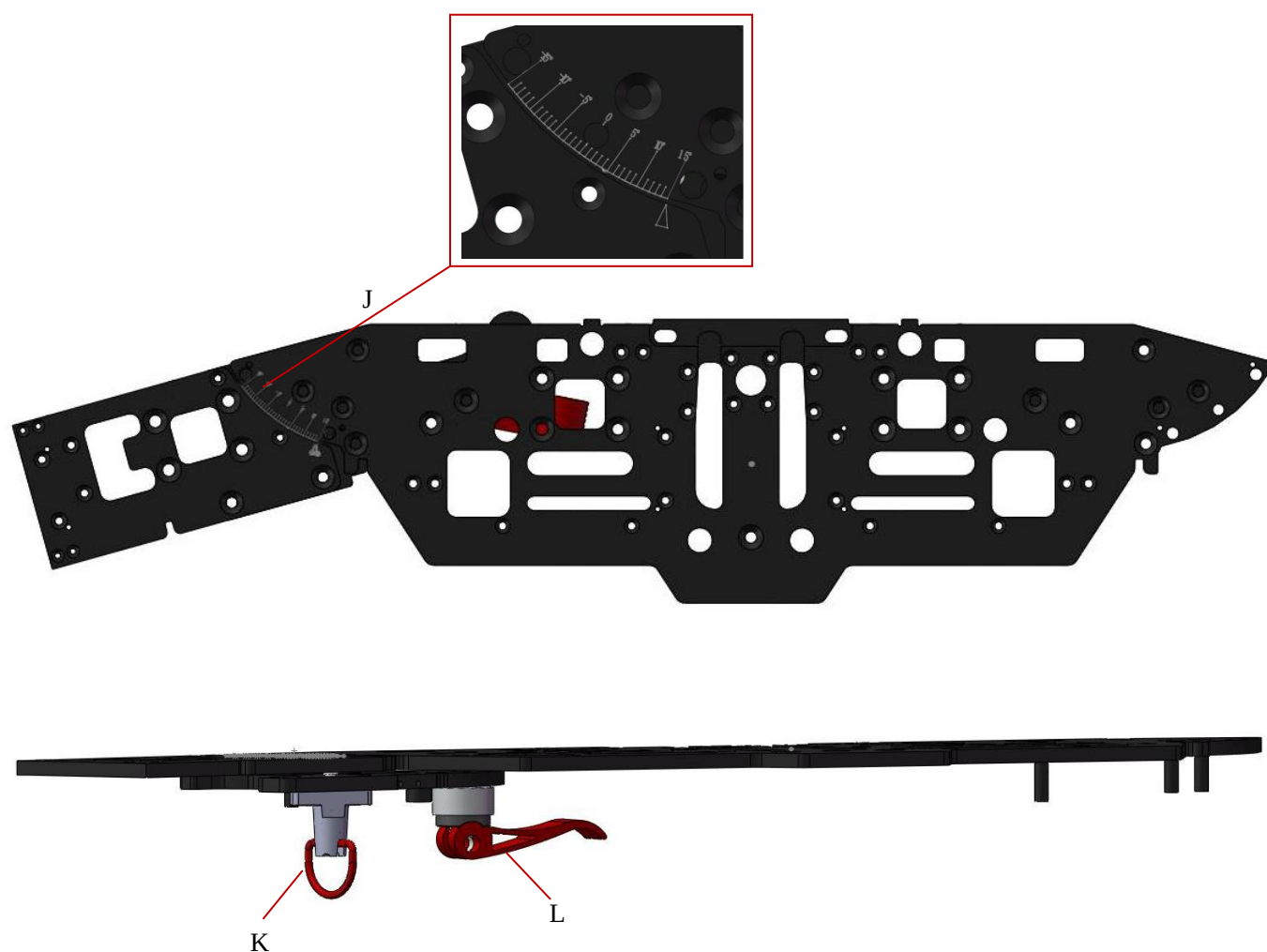
E: Positioning Cones on the sides

F: Positioning Port at the bottom

G: Positioning Port on the sides

H: Pedal Section. This can serve as a ladder when clients need to climb up the display from the back. This can also provide a place for screws when clients need to install more reinforcing ribs for big displays.

I: Ports for Connection Poles in Seat Installation



J: Rotation Angle Gauge (Pro Tour Series II does not have this component.)

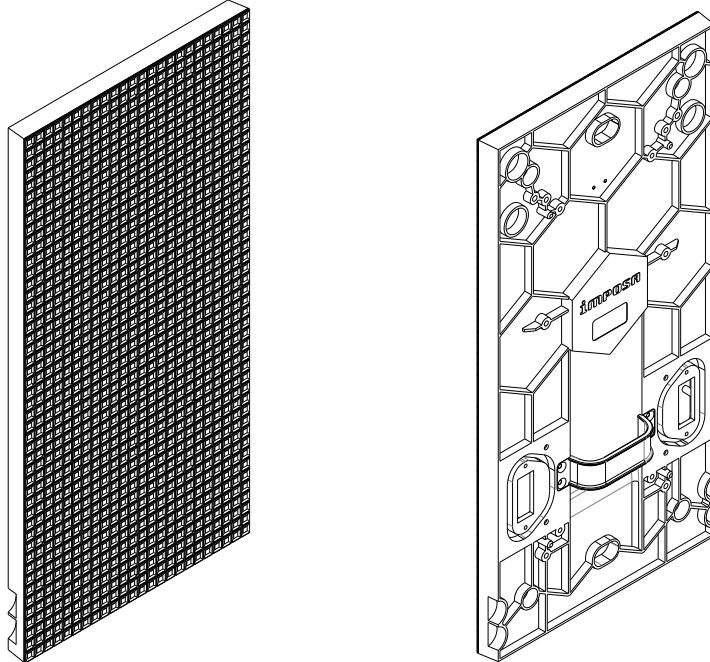
K: Zero Positioning Pin (Pro Tour Series II does not have this component.)

L: Angle Fixing Handle (Pro Tour Series II does not have this component.)

3.2 Module Specification

Introduction to Pro Tour Series Modules

The front of Pro Tour Series module consists of 3 in 1 SMDs and PC cover. There is a handle at the back of the module for easy installation and moving.

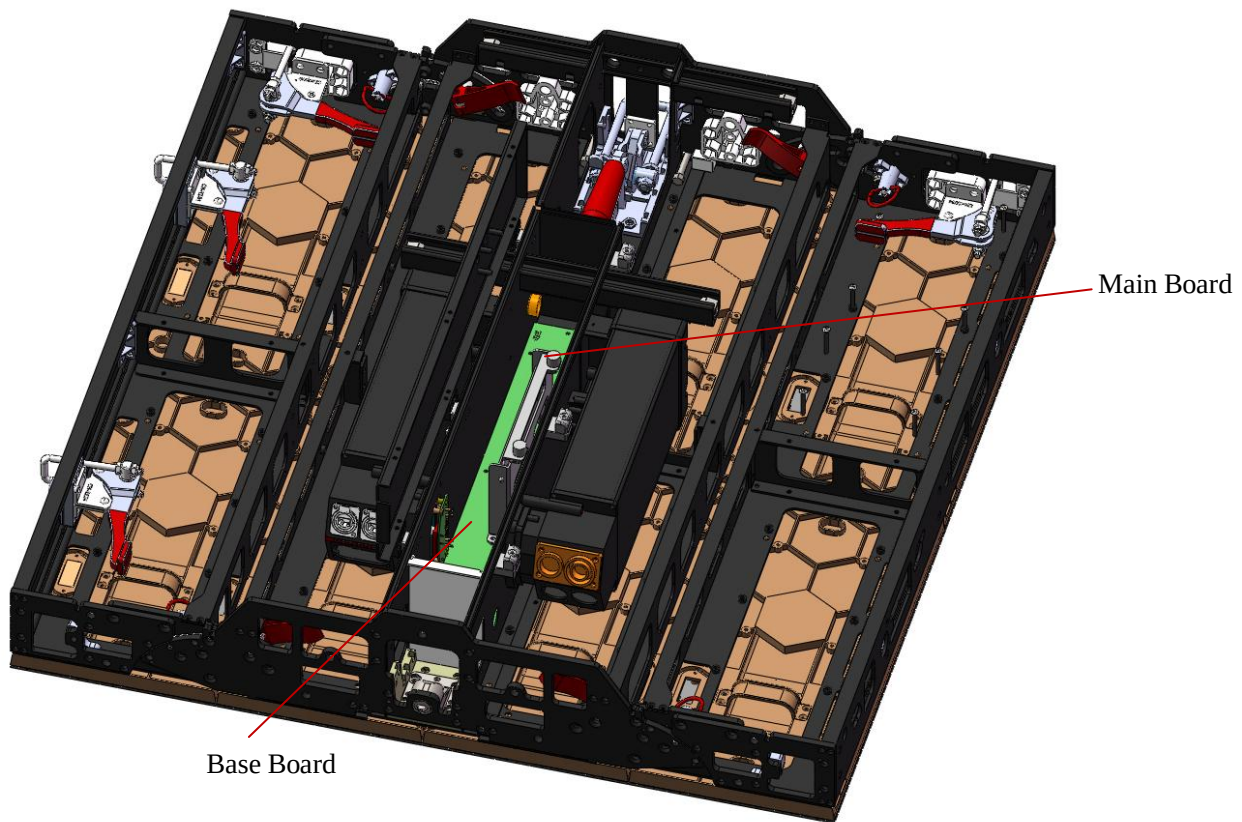


Pro Tour Series Specifications

Model	VFI 5.33	VFI 6.4	VFI 8	VFI 10.6	VFO12.8
Pixel Pitch	5.33mm	6.4mm	8mm	10.6mm	12.8mm
Pixel Configuration	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD	3 in 1 SMD
Application	Indoor	Indoor/Outdoor			
Module Specification					
Module Resolution (HXW)	72X36	60X30	48X24	36X18	30X15
Module Size (mm)(HXW)	384X192				
Cabinet Specification					
Cabinet Resolution(H X W)	144X144	120X120	96X96	72X72	60X60
Cabinet Size(mm)(HXW)	768X768				
Cabinet Weight (KG)	22	24			
Display Specification					
Max. Power Consumption per Cabinet (W)	600				
Brightness (cd/m²)	2000 for Indoor / 6000 for Outdoor				
Directivity Angle	140°/ 120°				
IP Rating		Front:IP65 Back:IP54			
Grey Level	14Bit	16Bit			
Frame Frequency (Hz)	>60 ready 120/240				
Refresh Rate (Hz)	>1000				
Brightness Level	100				

3.3 Control Box

Control box is the core of a Pro Tour Series cabinet. It distributes the data from the LDU8000 to every module.



4 Equipment and Accessories for IMPOSA Pro Tour Series

This chapter focuses on the external equipment and accessories for the IMPOSA Pro Tour Series.

Overview

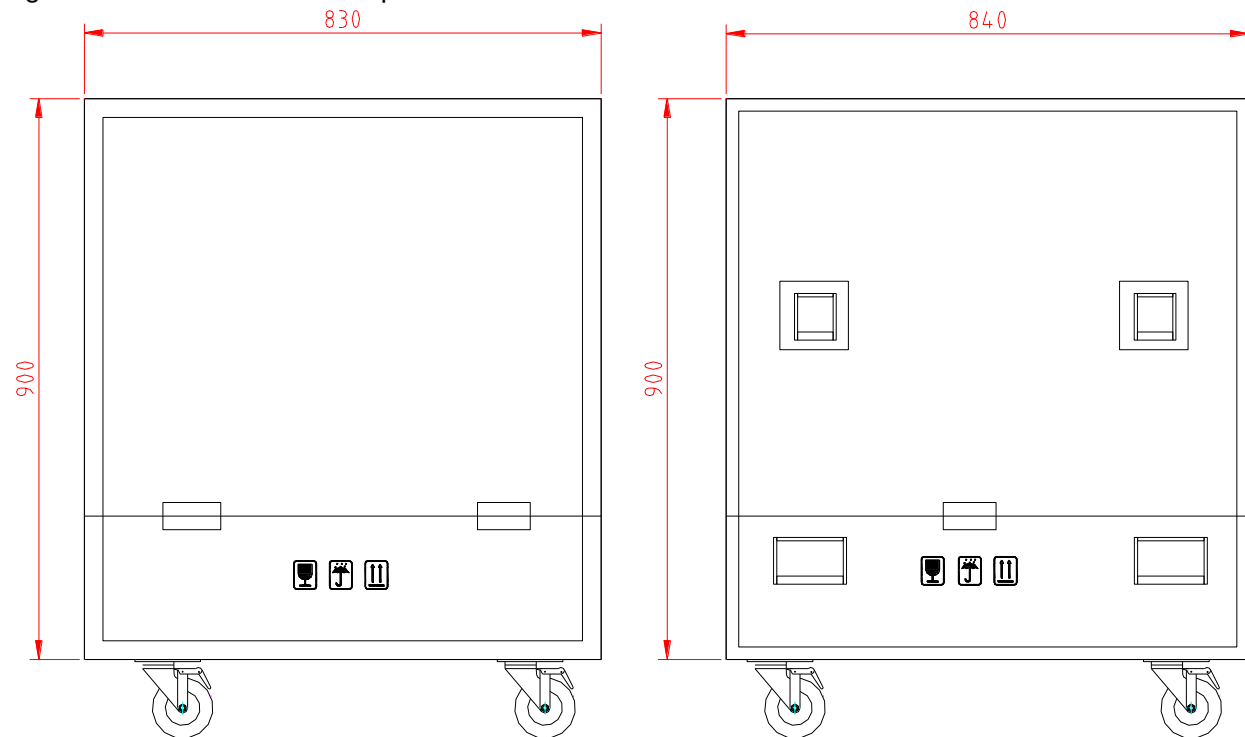
- Packing Box
- Power Box
- LDU8000 Control Box
- Cables
- Control Software Pro Tour Series

4.1 Packing Box

There are 2 packing methods for IMPOSA Pro Tour Series. One is to use ordinary flight cases, and the other is to use customized flight cases to create more convenience for hanging installation.

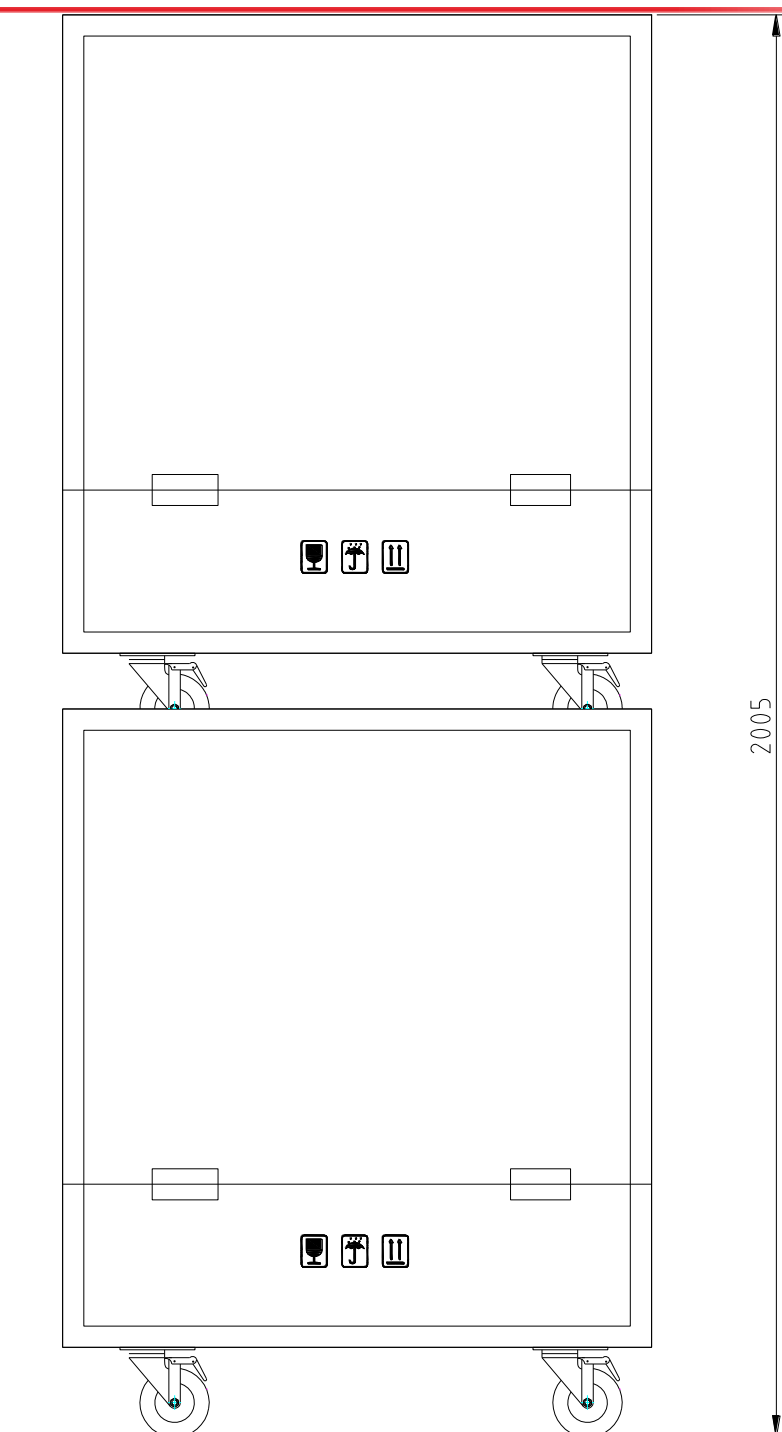
➤ About Type 1 Flight Case

Each Flight case is designed to contain 4 IMPOSA Pro Tour Series cabinets. The cabinets are protected against each other with a soft partition board in the middle.

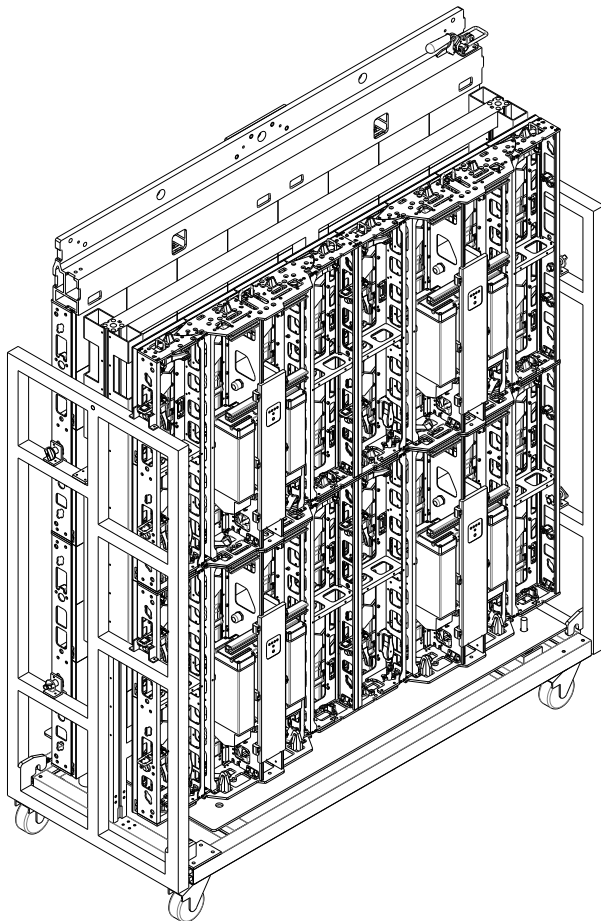
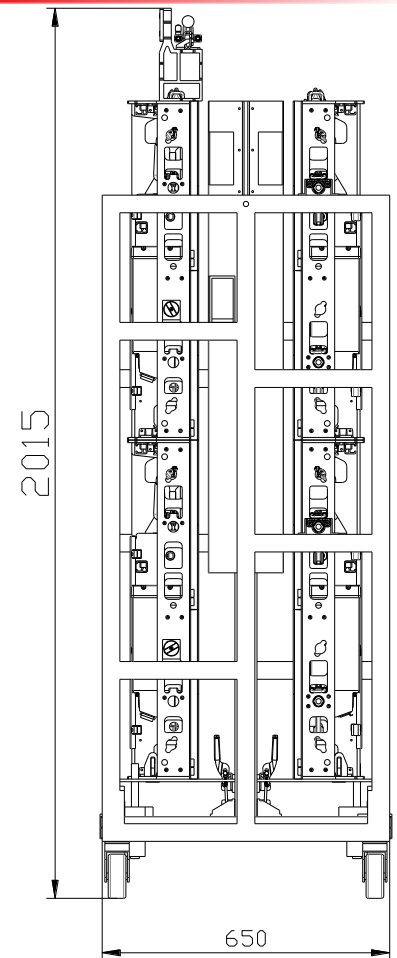
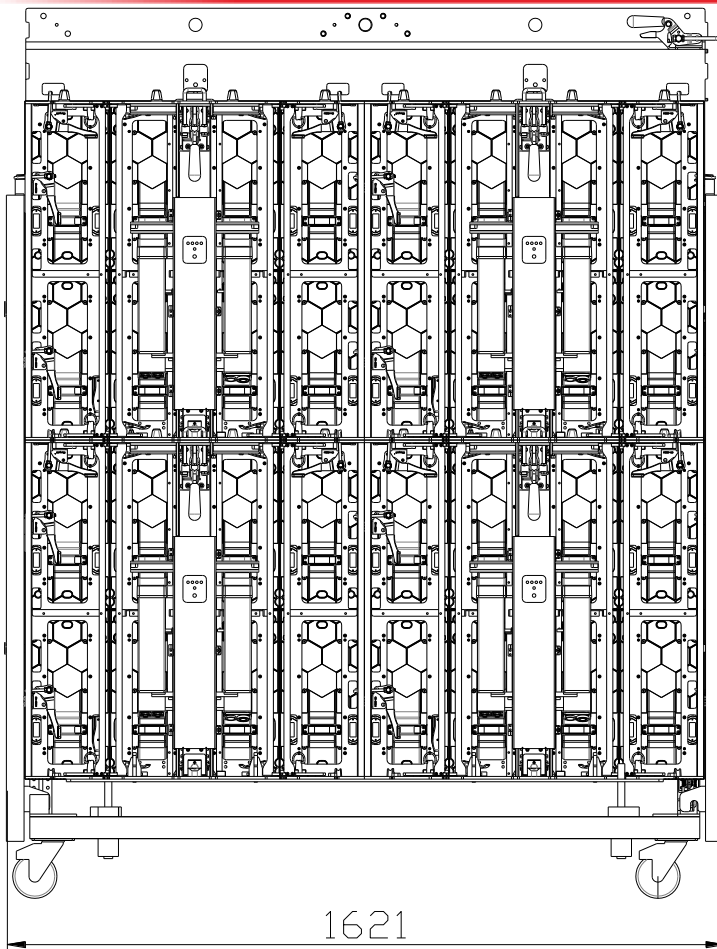


Flight Case Drawing

The 4 sunken corners at the top of the flight case are for the purpose of piling the flight cases up at maximum 2 layers. Please refer to the following drawing:



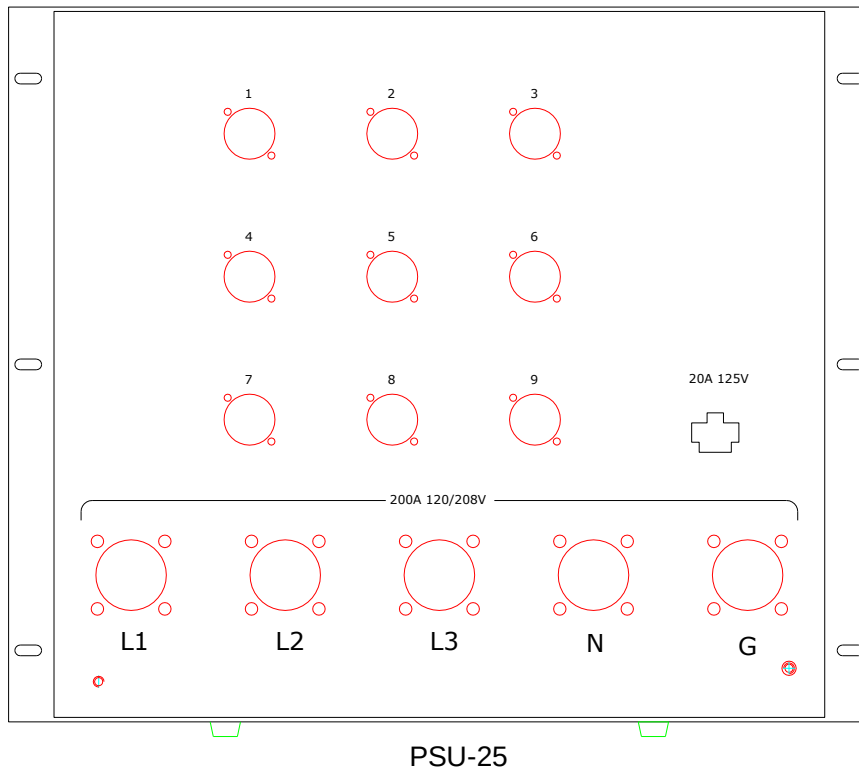
- About Type 2 Flight Case
- Each Type 2 flight case can contain up to 8 cabinets.



4.2 Power Box

Power boxes can be provided at clients' option. The manufacturer provides 2 types of power box. They are PSU25 and PSU40. Please see the below table for details:

Model	Power	Output Channel
PSU25	25KW	9
PSU40	40KW	15



Features of the Power Box:

- Of three-phase five-wire system;
- Equipped with short circuit device and manual switch for safe inspection and repair;
- c/w over-current, short circuit, over- and under-voltage protection;
- Designed with equal power distribution for all 3 phases, ensuring zero current leakage to the null line.

4.3 Control Box LDU8000

LDU8000, the latest control system developed by Chainzone, is designed to control the Imposa Pro Tour Series rental display. It features:

- Max DVI signal input: 1920 X1200@60Hz;
- Four channels with gigabit Ethernet signal output. Max resolution up to 2.3million pixels (1920 X1200) ;
- ARTNET signal input available ;
- Support Genlock signal input. Multi screens can be exactly synchronized;
- DVI loop output interface. Multi devices can be easily cascaded;
- Communication: Ethernet, USB etc. ;
- Clear customer-friendly human-machine interface, able to effectively set Freeze, Black and Semi-Bright etc.;
- Real-time monitoring on the screen's operation. Buzzer will immediately sound once error is detected;
- Neutrik signal and power supply port, reliable and easy-to-use;
- Standard 1U case(L X W X H :360mm X 435mm X 44.45mm)



Front View of LDU8000

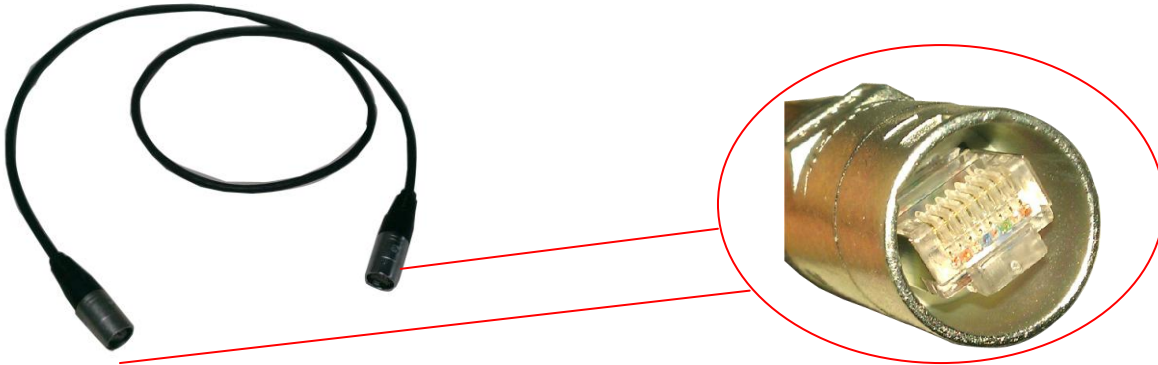


Back View of LDU8000

Please refer to the user's manual of LDU8000 for how to operate on LDU8000.

4.4 Cables

- Signal Cable between Cabinets



- Power Cable between Cabinets



- Power cable from Cabinet to PSU



- Signal Cable from Cabinet to LDU8000



- Ethernet Cable from LDU8000 to Control PC

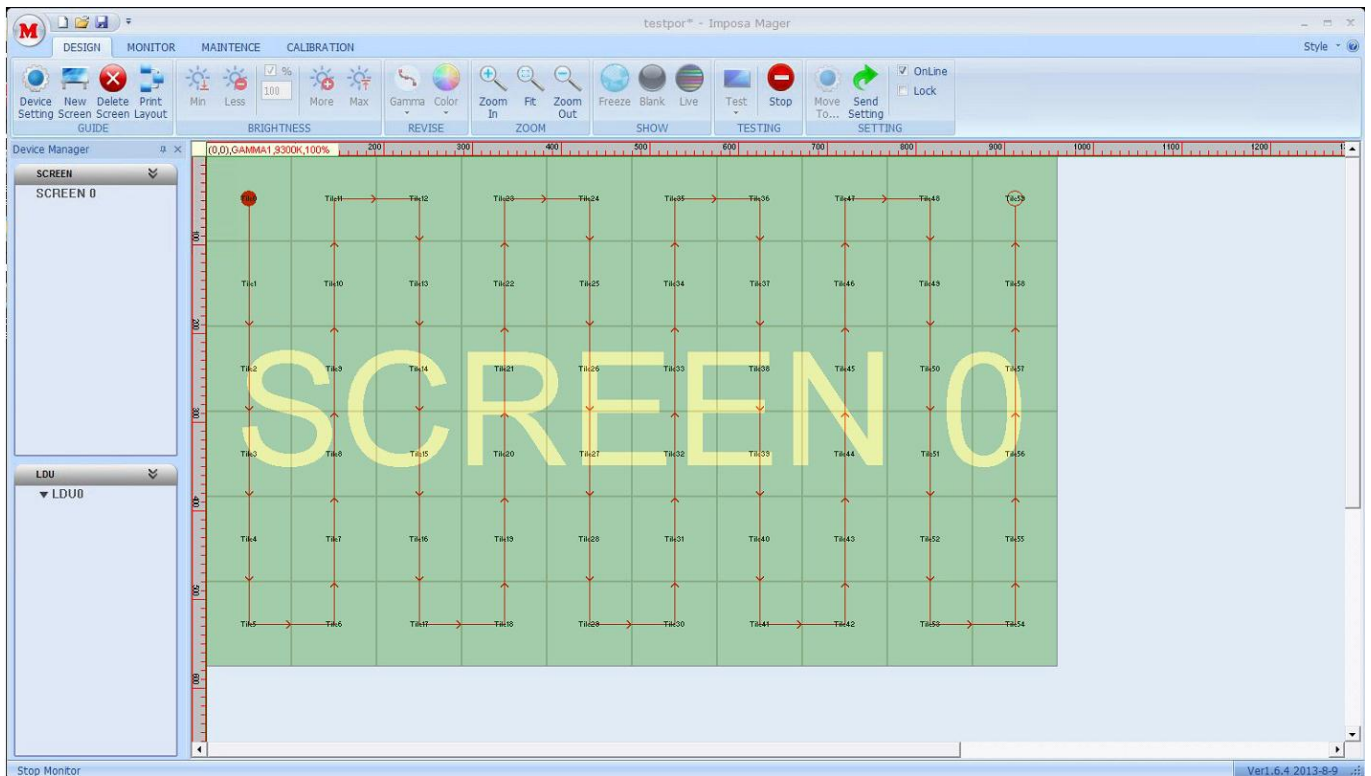


- DVI Cable to Graphic Card



4.5 Control Software: Pro Tour Series

Pro Tour Series, the control software designed to work with LDU8000, is for configuring IMPOSA Pro Tour Series cabinets into a whole properly-working screen.



Please refer to the Pro Tour Series user manual for its detailed operation and functions.

5 Installation

This chapter tells how to unpack, how to assemble, to hang and to sit-mount Imposa Pro Tour Series cabinets

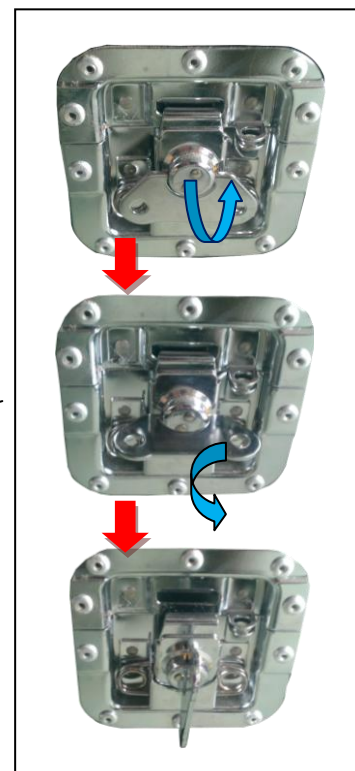
Overview

- Unpacking
- Assembling between cabinets
- Hanging
- Sit-mounting

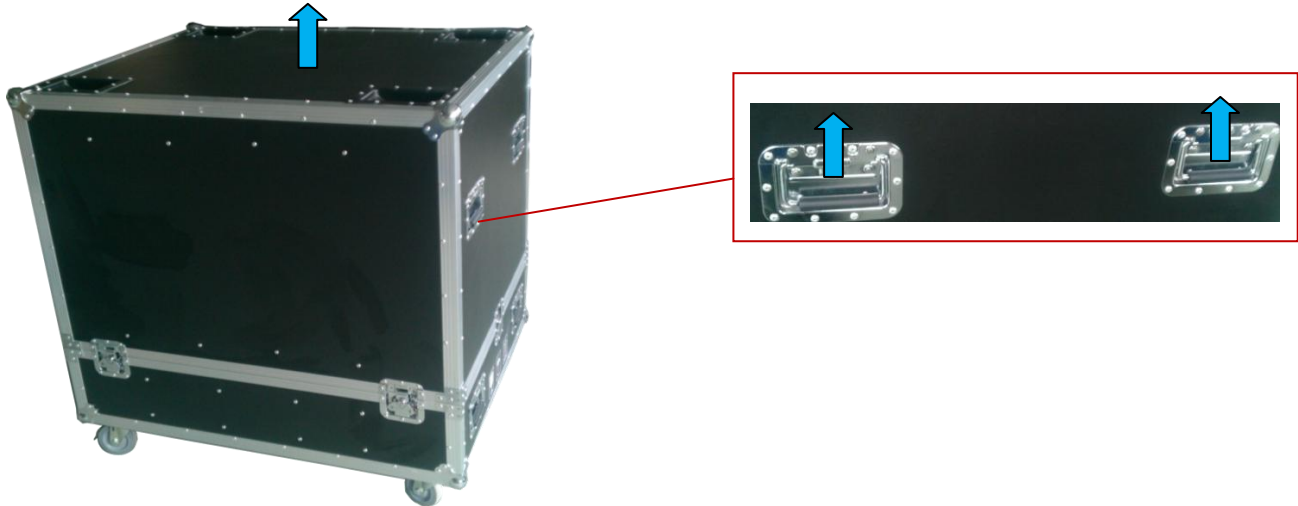
5.1 Unpacking

Unpacking from Type 1 Flight Case

1. Open the 6 locks of Type 1 Flight Case



2. Take off the top cover of the flight case via the handles as shown below.



Note: It requires at least 2 people to take off the cover.

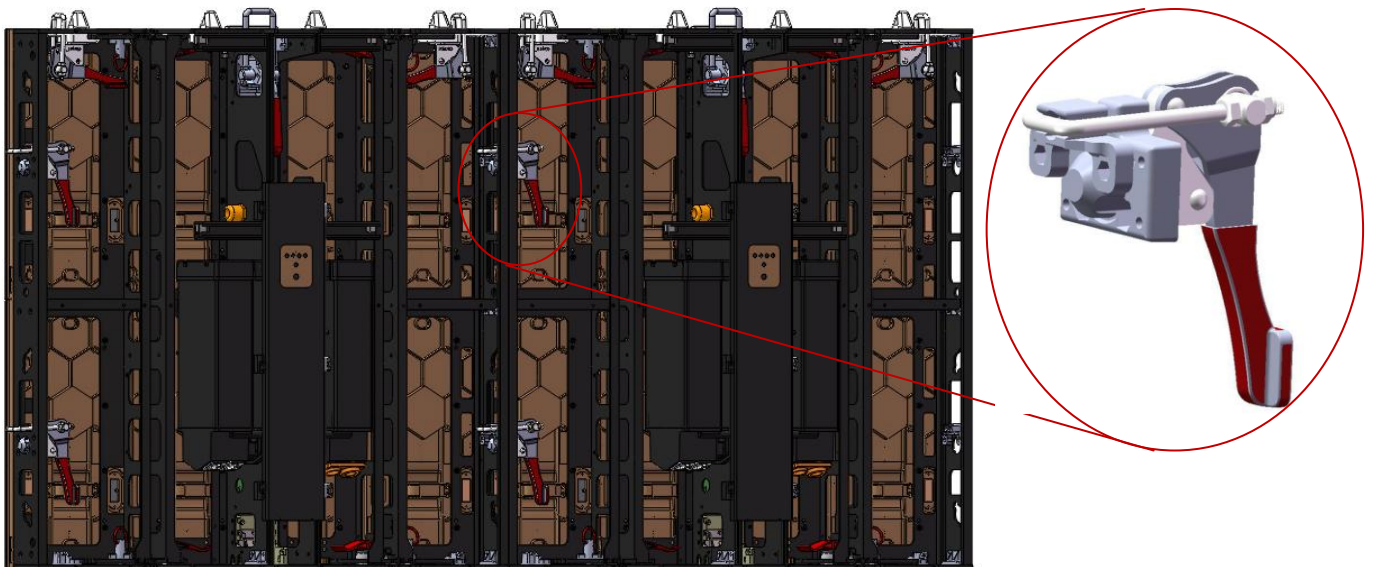
3. Take out the IMPOSA Pro Tour Series cabinet.

Note: It also requires 2 people to be able to take out the cabinet. The operator is advised to use gloves in order not to get hurt.

4. Repeat Step 3 till all cabinets in the flight case are taken out.

5.2 Assembling between Cabinets

While assembling 2 neighboring cabinets, the operator must correctly direct the toggle clamp to the buckle on the other cabinet and then lock it downward.

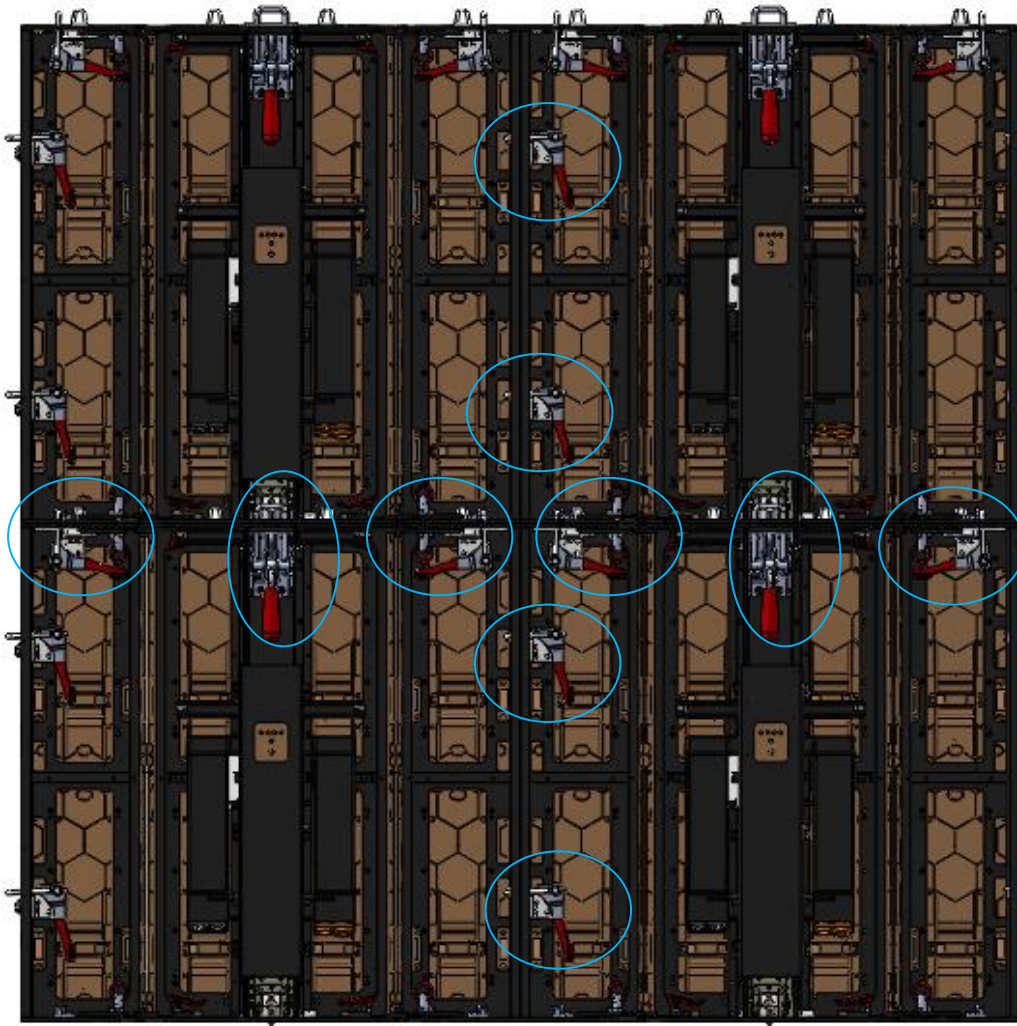


As shown below, when an upper cabinet is connected to the lower one, the upper cabinet must be placed properly into the toggle clamp at the top of the below cabinet. Then pull the clamp downward to have it locked:



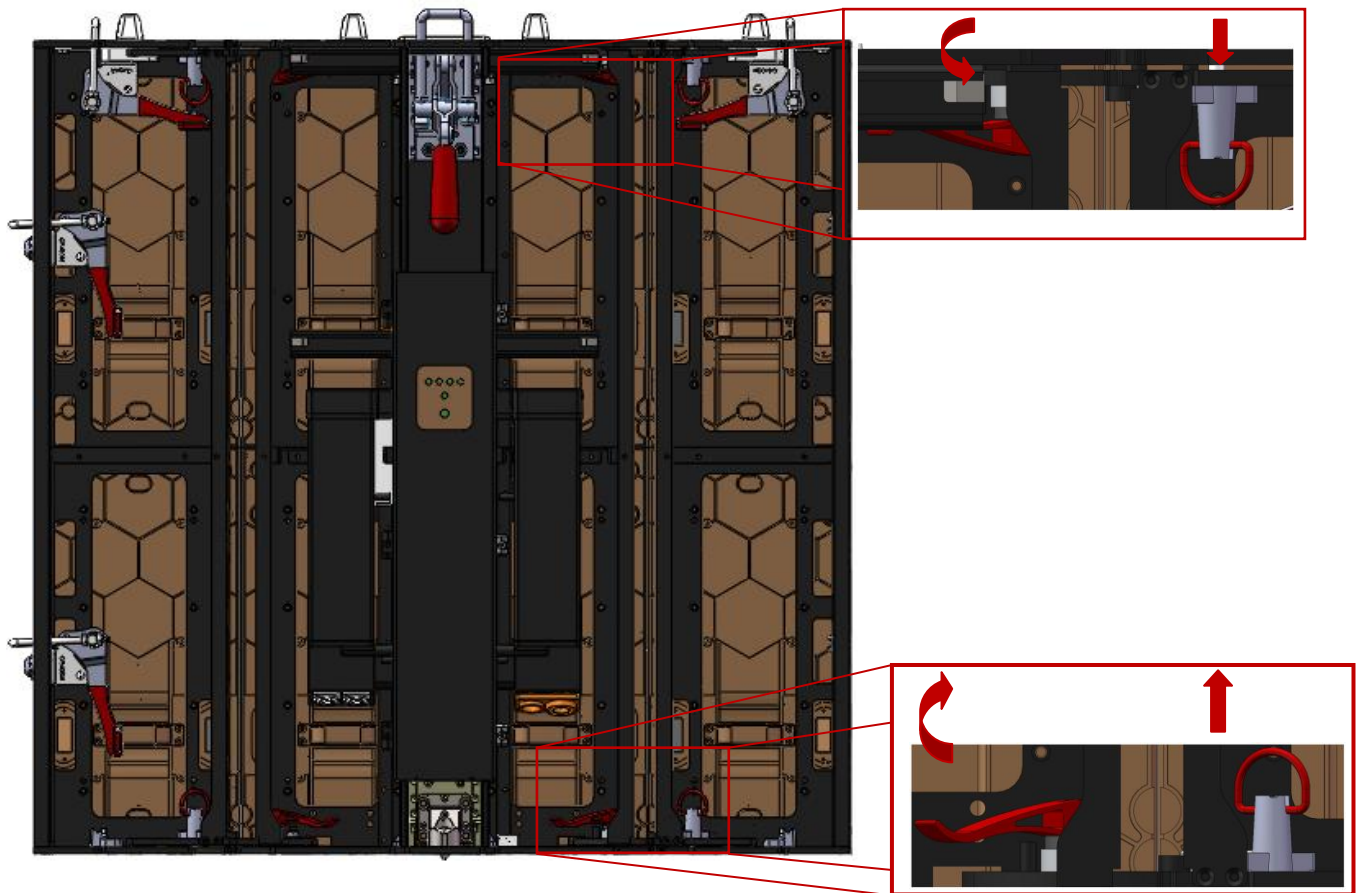
Make sure to lock these 3 toggle clamps tightly

- Combining the above 2 steps, one can easily get a screen put up:

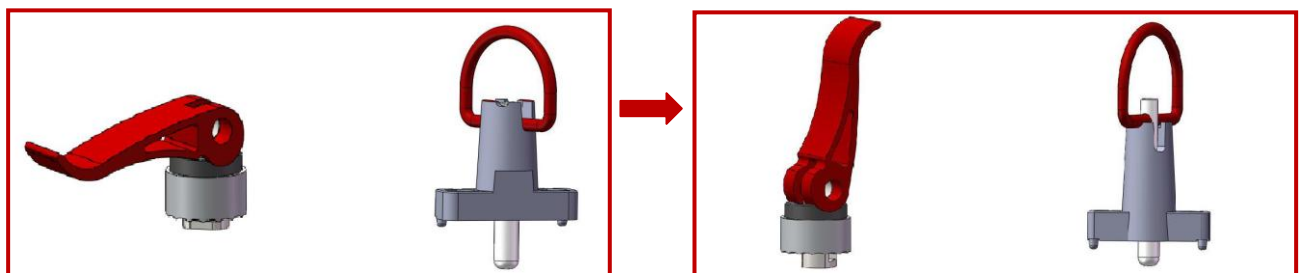


- Make sure the toggle clamps as shown above are properly connected.
- Connection between bent cabinets
Both sides of Pro Tour Series I cabinets can be freely bent by in or out 15°. So they can easily make up a curve screen. Please read below for how to do the connection between bent cabinets:

1. Bend the cabinet in the desired angle. Loosen off the angle-holding bracket. Pull down the 0°fixation pin and turn it by 90°. The steps are as shown below:



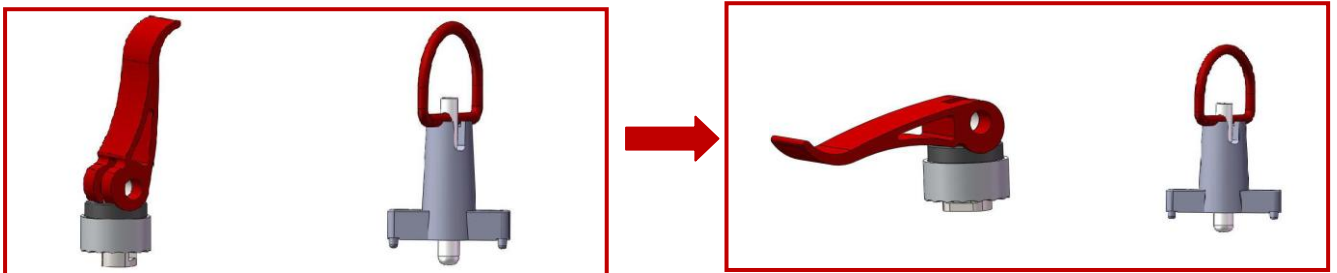
Steps decomposed:



2. Turn both sides of the cabinet to the desired angle:



3. Press down the angle-holding bracket to prevent the sides of the cabinet from moving. (There is no need to return the 0° fixation pin to its original position.)



4. Turn all other cabinets to the same angle and connect them up with the toggle clamps:



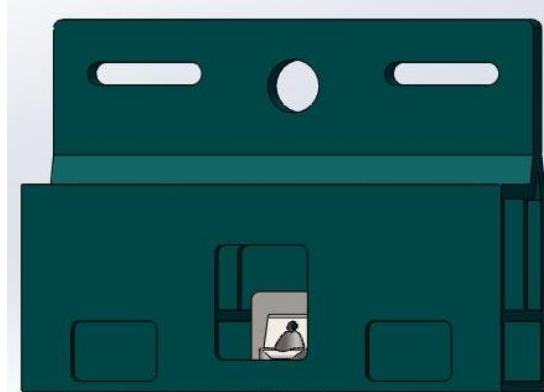
5.3 Hanging Installation

Hoisting assembly is a way to hang up the Cabinets, both curved cabinet and straight cabinet are available.

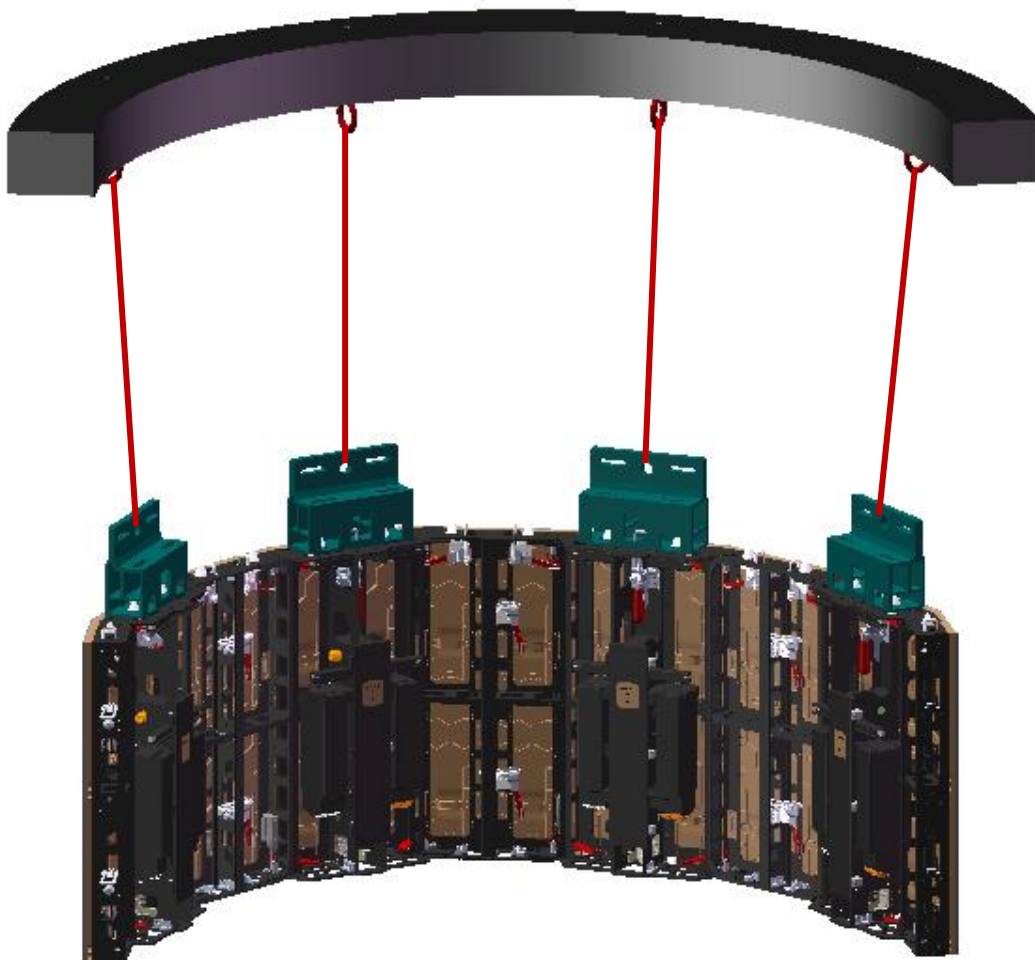
5.3.1 Hanging Beam

There are three types of hanging beams: 280 hanging beam, 768 hanging beam, 1536 hanging beam. Because of the different sizes, each beam can connect different number of cabinets. But the ways of connection between each beam and cabinet are similar.

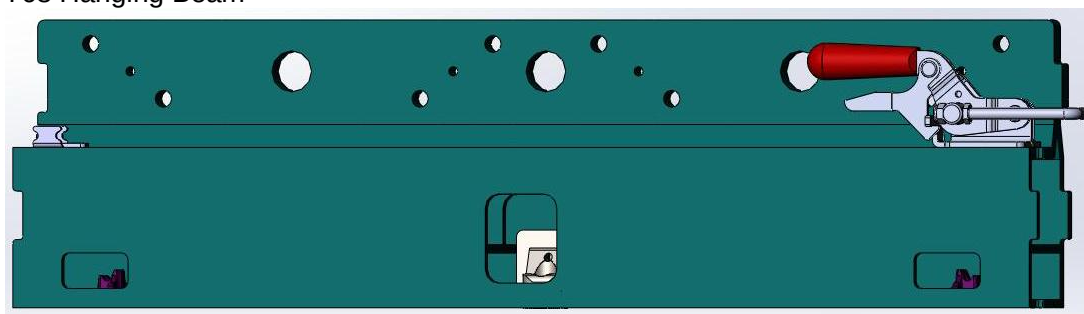
- 280 hanging beam



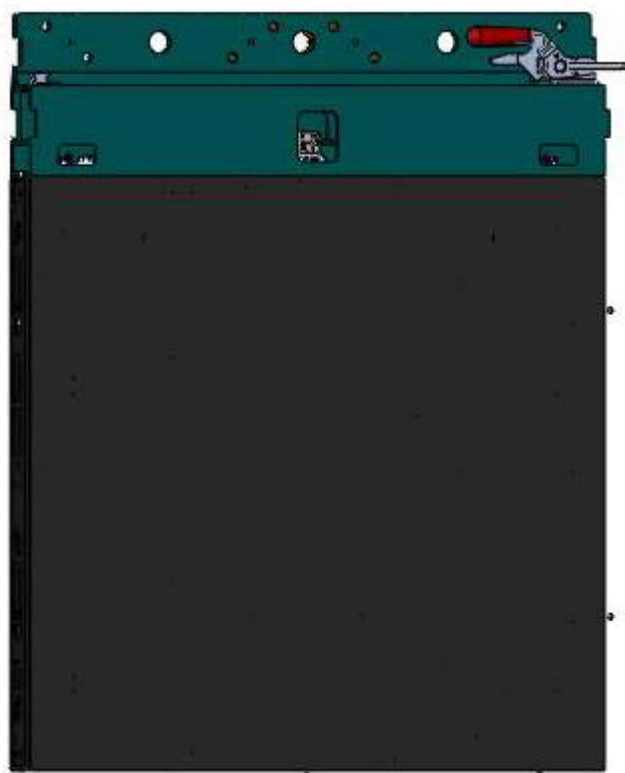
280 hanging beam is used to connect curved cabinet and waved cabinet. It provides suspension point for the cabinet. Each 280 hanging beam connects one cabinet.



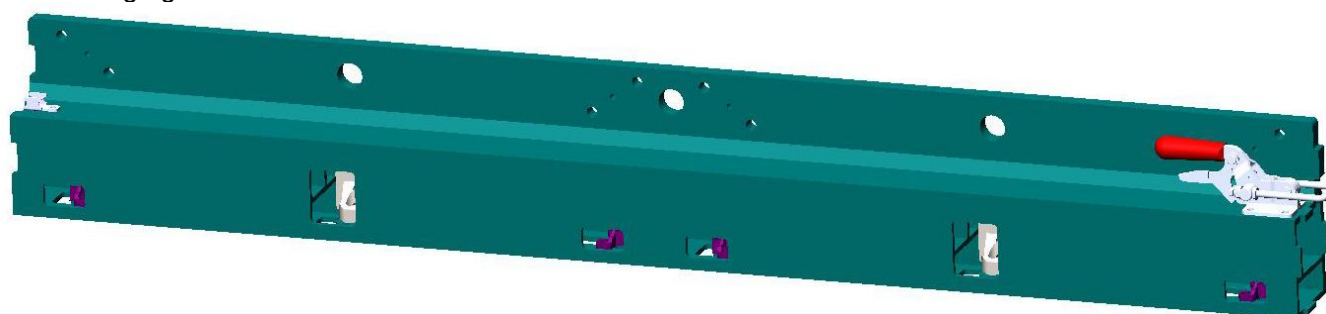
➤ 768 Hanging Beam



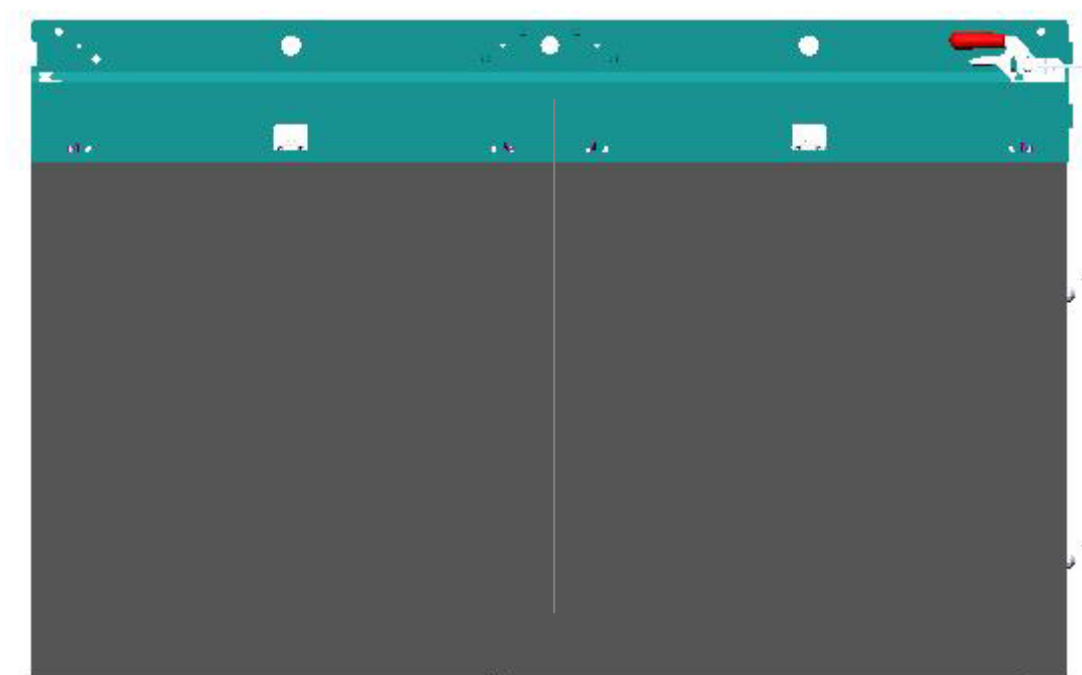
It is used to connect straight cabinet. Each 768 hanging beam connect one cabinet.



➤ 1536 Hanging Beam

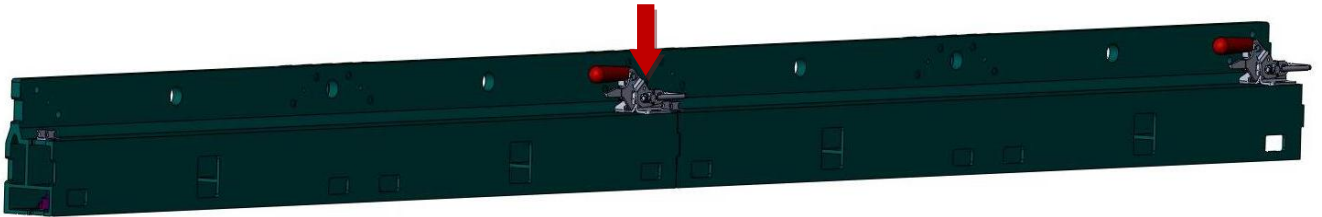


It is used to connect straight cabinet and each beam can connect two cabinet.

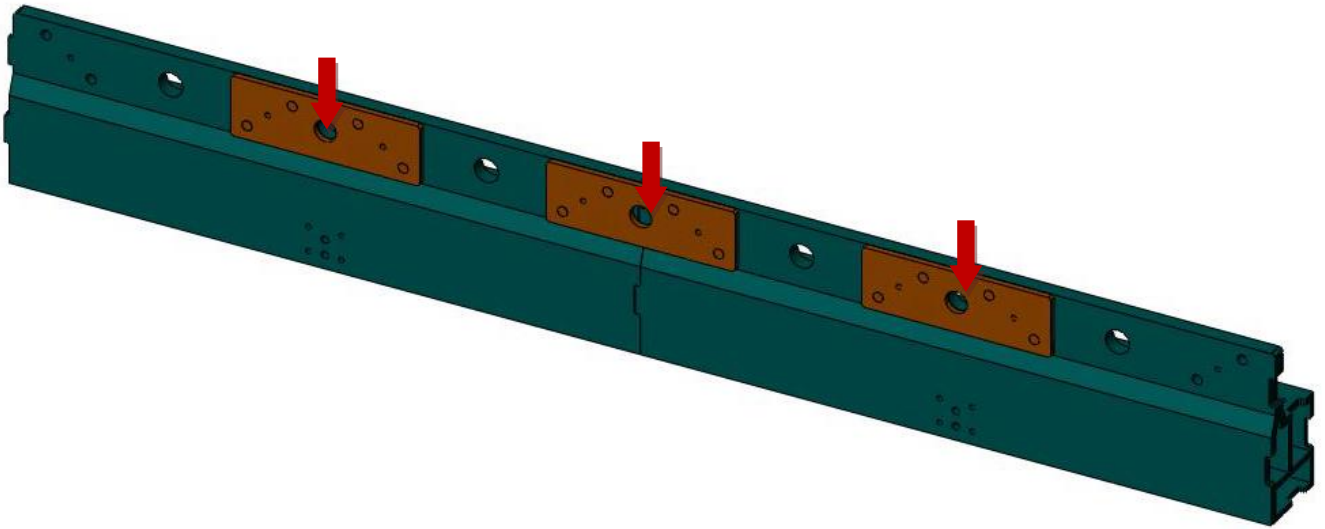


5.3.2 Splice of Two Hanging Beams

Take 768 hanging beam for instance,(other types of hanging beam splice in the same way)
On the front, two beams are spliced by a buckle, as the following figure:



At the back, two beams are connected by stiffening plates

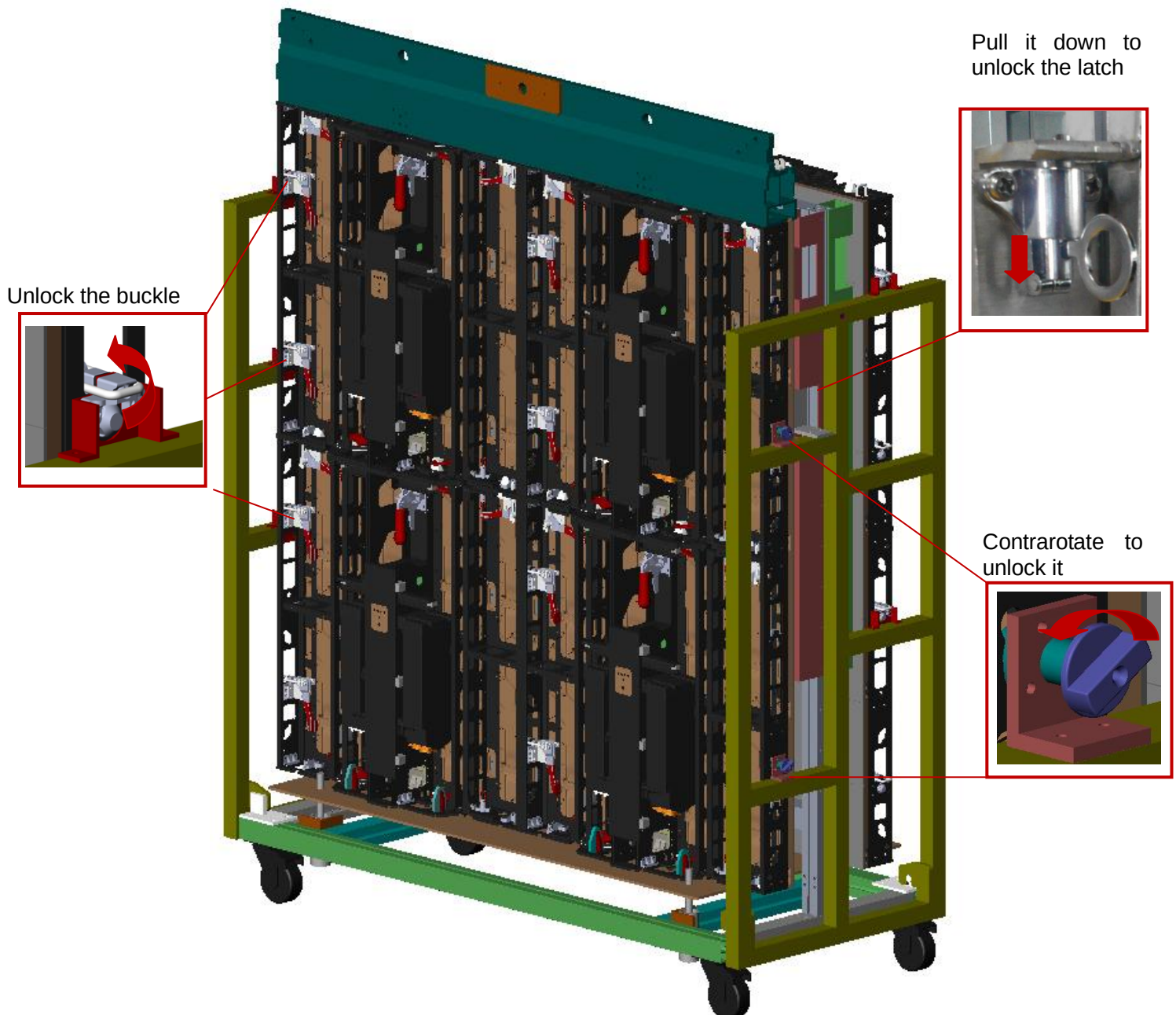


5.3.3 Steps of Hanging Installation

Required Tools

- Crane
- #### Required parts
- Flight case 2 and Pro Tour Series cabinet

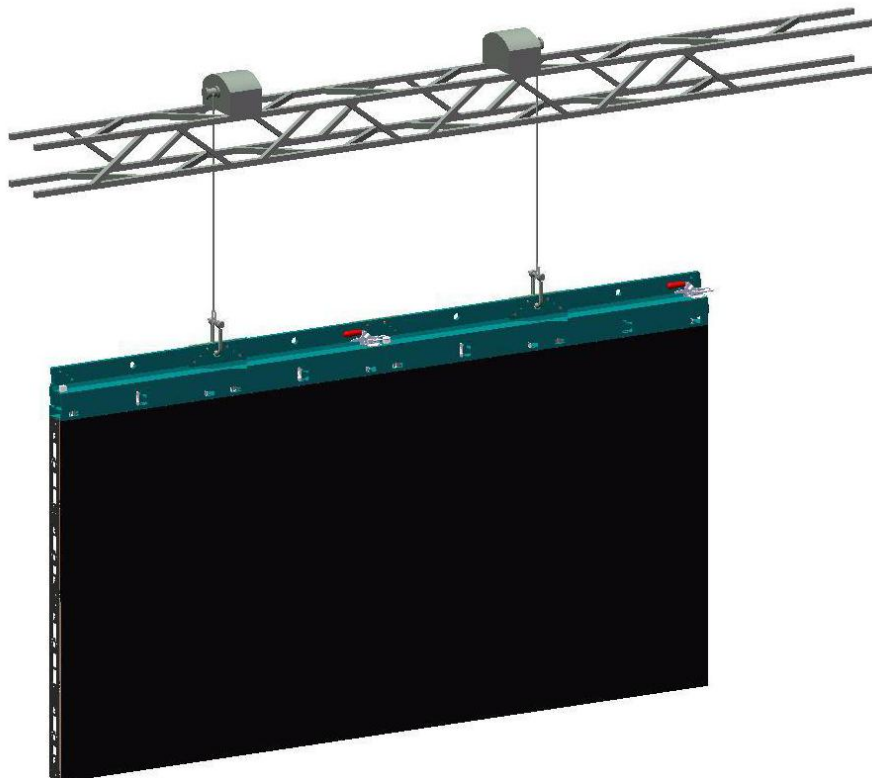
Step 1: Remove the two side-guardrail of Flight case 2.

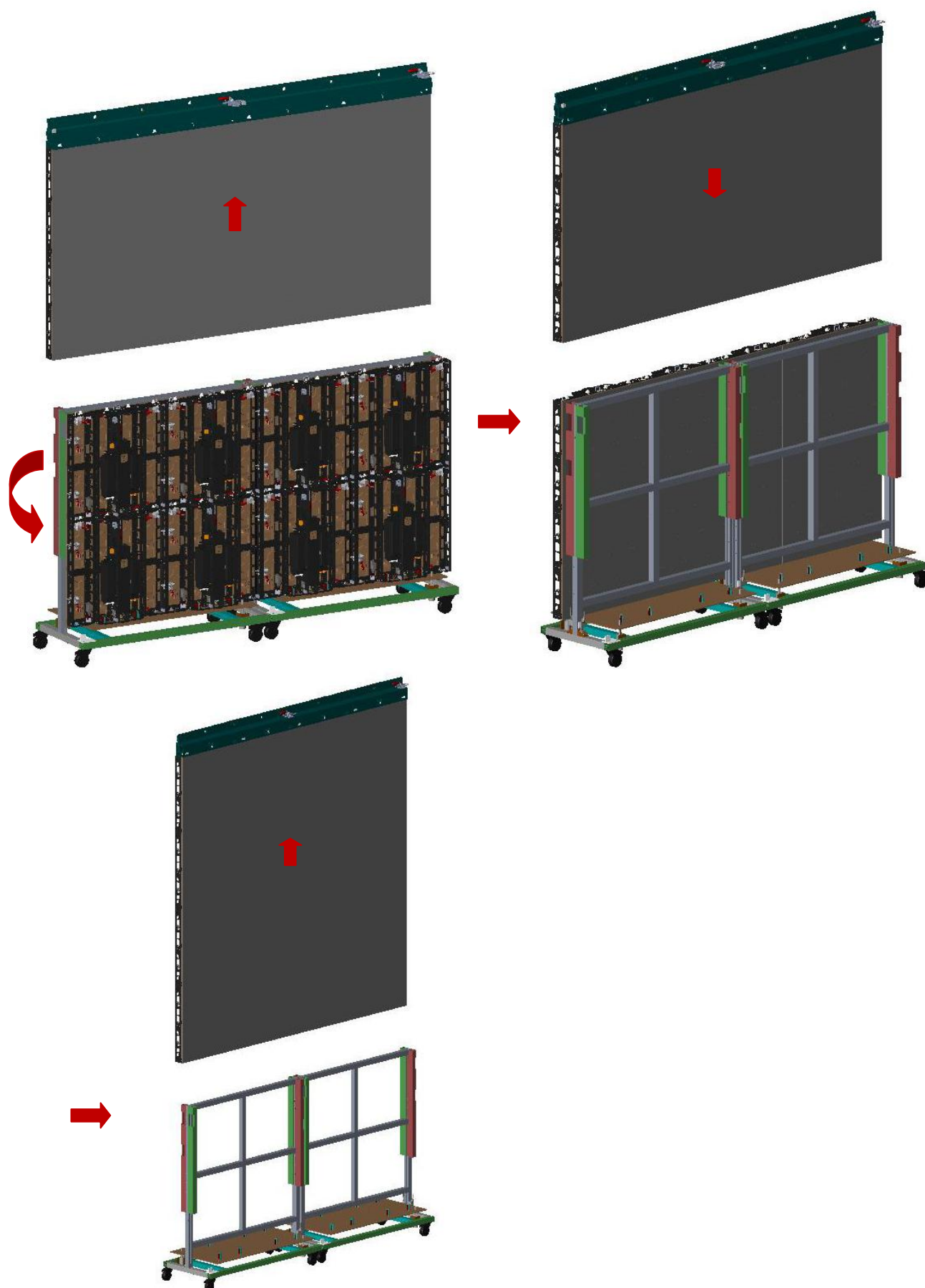


Step 2: Assemble the cabinets. Assemble the cabinets with hanging beams. Connect the cabinet and hanging beam according to the method described above.



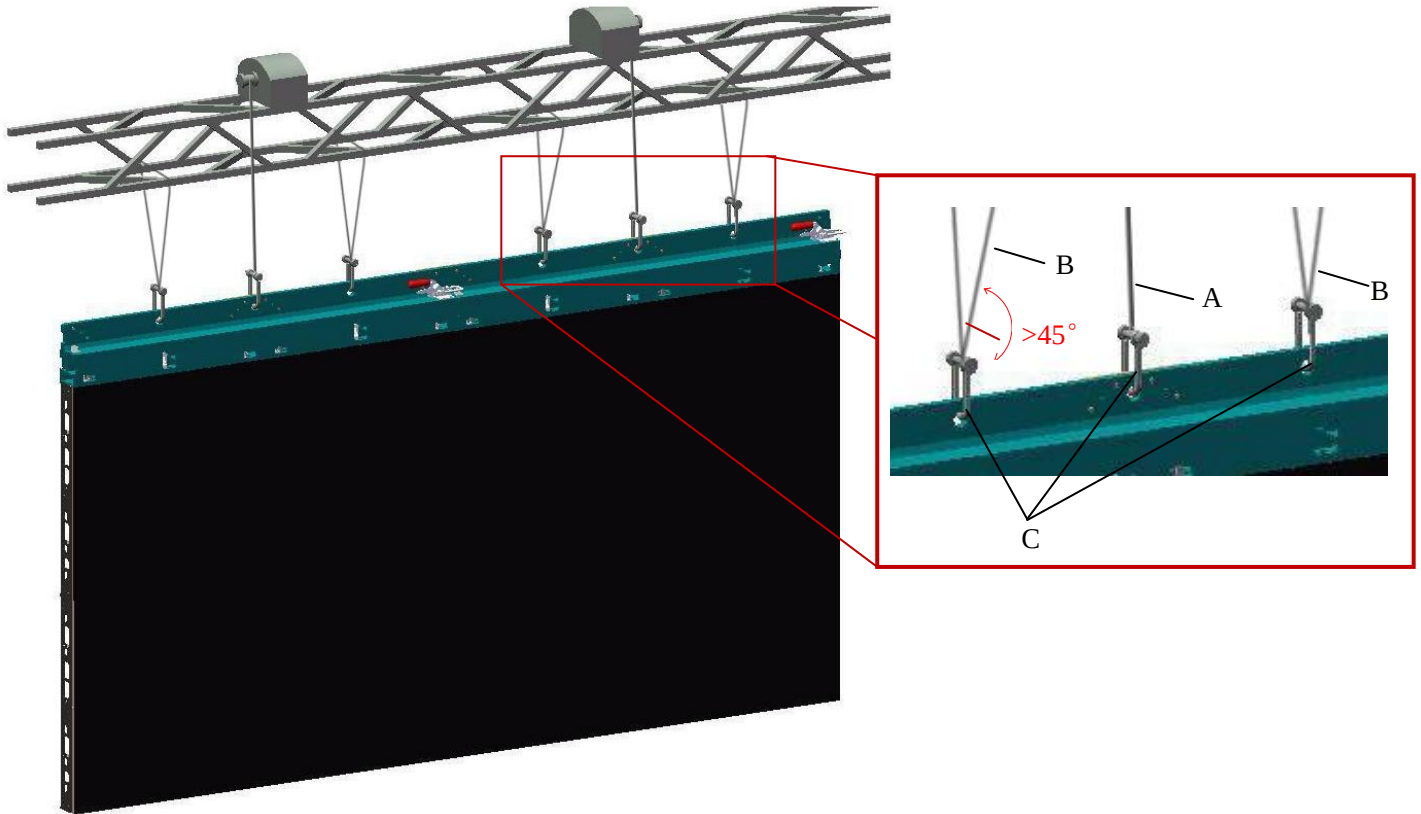
Step 3: Lift the assembled cabinets by crane, turn the flight case back and connect it with the cabinet in the opposite.





Step 4: Connect other cabinets in this way.

Step 5: Lift the display to a intended height. In case of slipping down, security steel chains must be add to the hanging beam.



A: The lifting chain of lifting hoist
B: security steel chain
C: U-shaped buckle

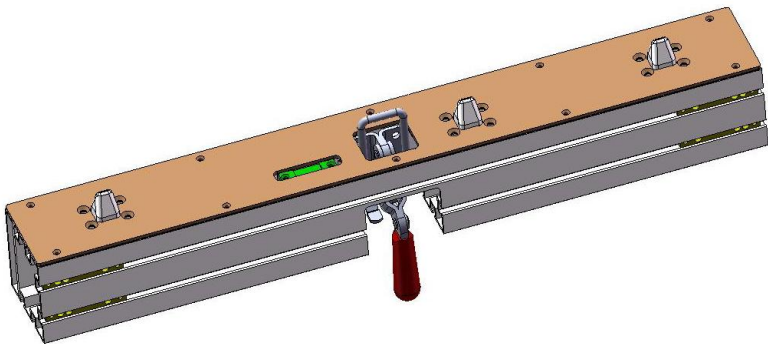
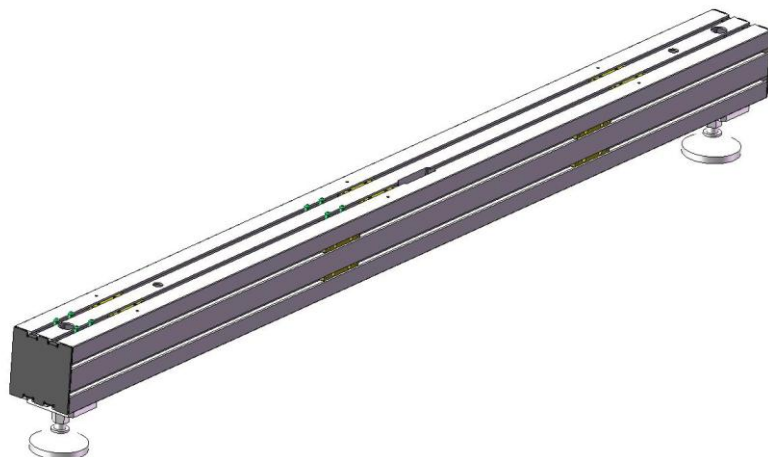
Explanation:

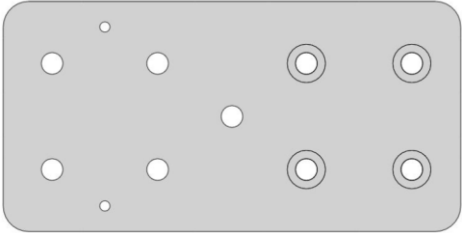
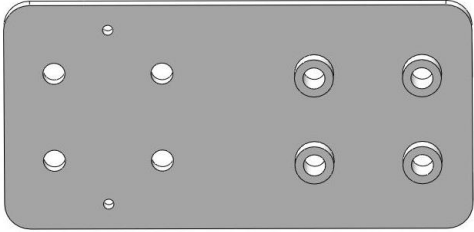
1. The angle between security steel chains and hanging beam should be more than 45 degrees.
2. Security steel chains should be add to every hanging beam, and the stress point evenly distributed.

5.4 Sitting Installation

This installation is to seat the cabinet on the ground through a bracket. It is only available to the straight cabinet.

5.4.1 Components of the Bracket

Item	Name	Pattern
1	The bottom beam	
2	girder	
3	Vertical bar	
4	Singletree	
6	Connecting rod	

7	100 angle aluminum	
8	Vertical bar connecting plate 1	
9	Vertical bar connecting plate 2	

5.4.2 Steps of Sitting Installation

The example is the process of how to assemble 3 rows and 4 columns of cabinets.

Tools Required

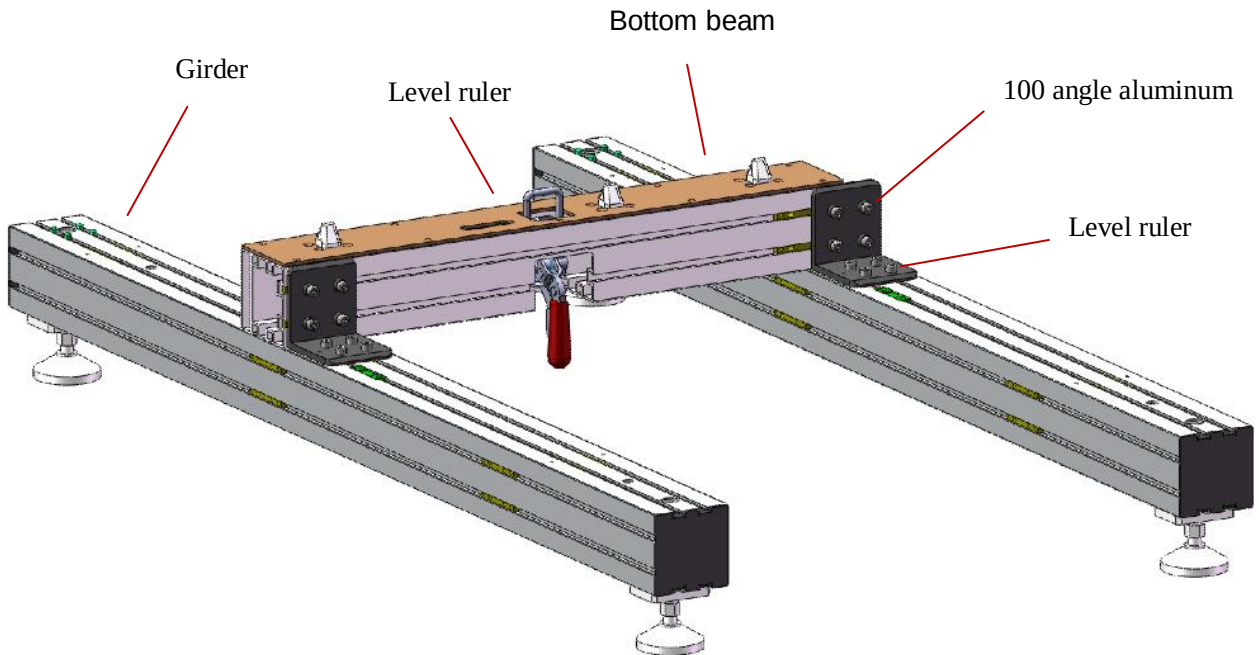
- 6mm hexagon screwdriver
- 10mm T type sleeve

Parts Required

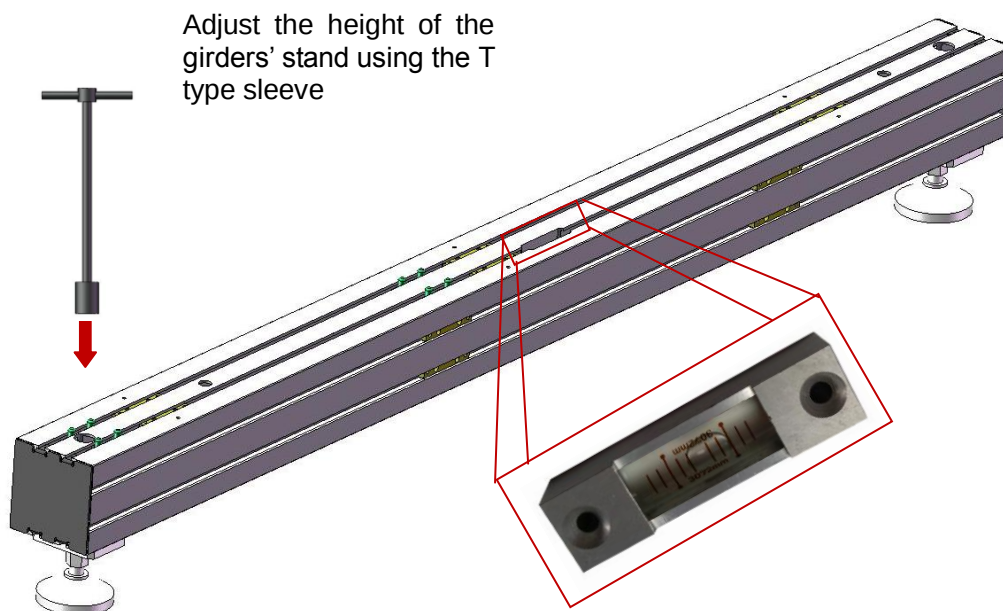
- All parts of the bracket
- Cabinets of Pro Tour Series: 12

Steps:

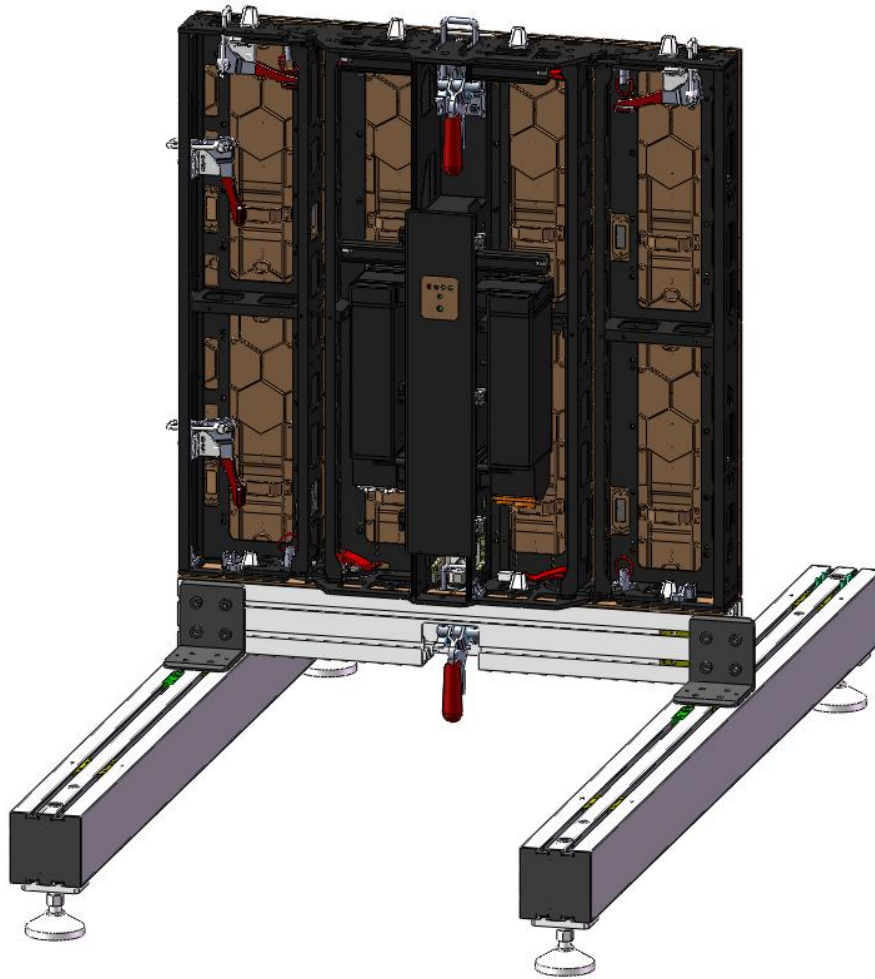
1. Use the bottom beam, girder and 100 angle aluminum to form an "I" bracket and connect a cabinet.



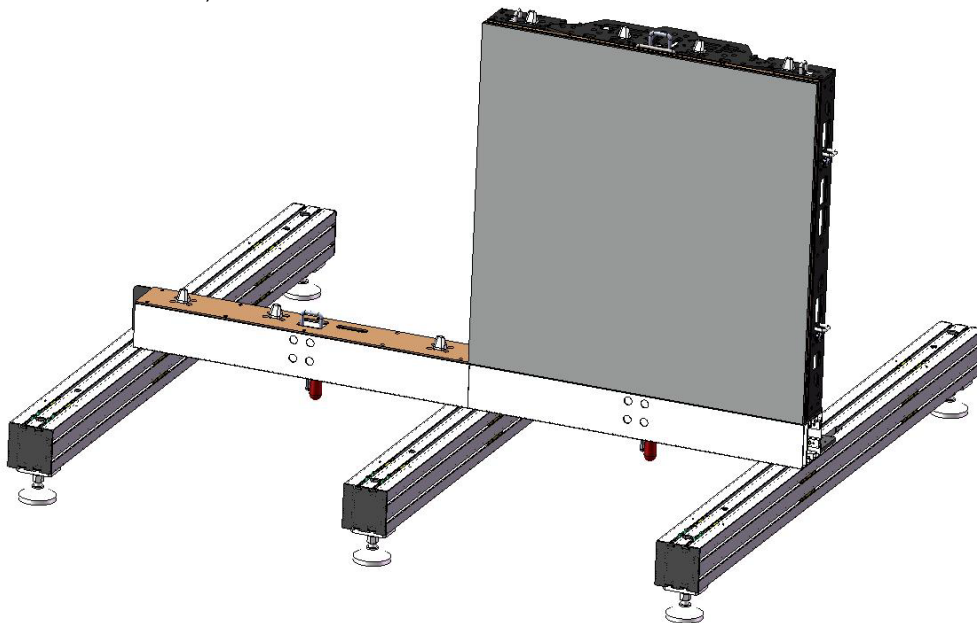
Note: The key point of this part is to adjust the level of the bottom. It can be achieved by moving the level rulers in the bottom beam and girders.

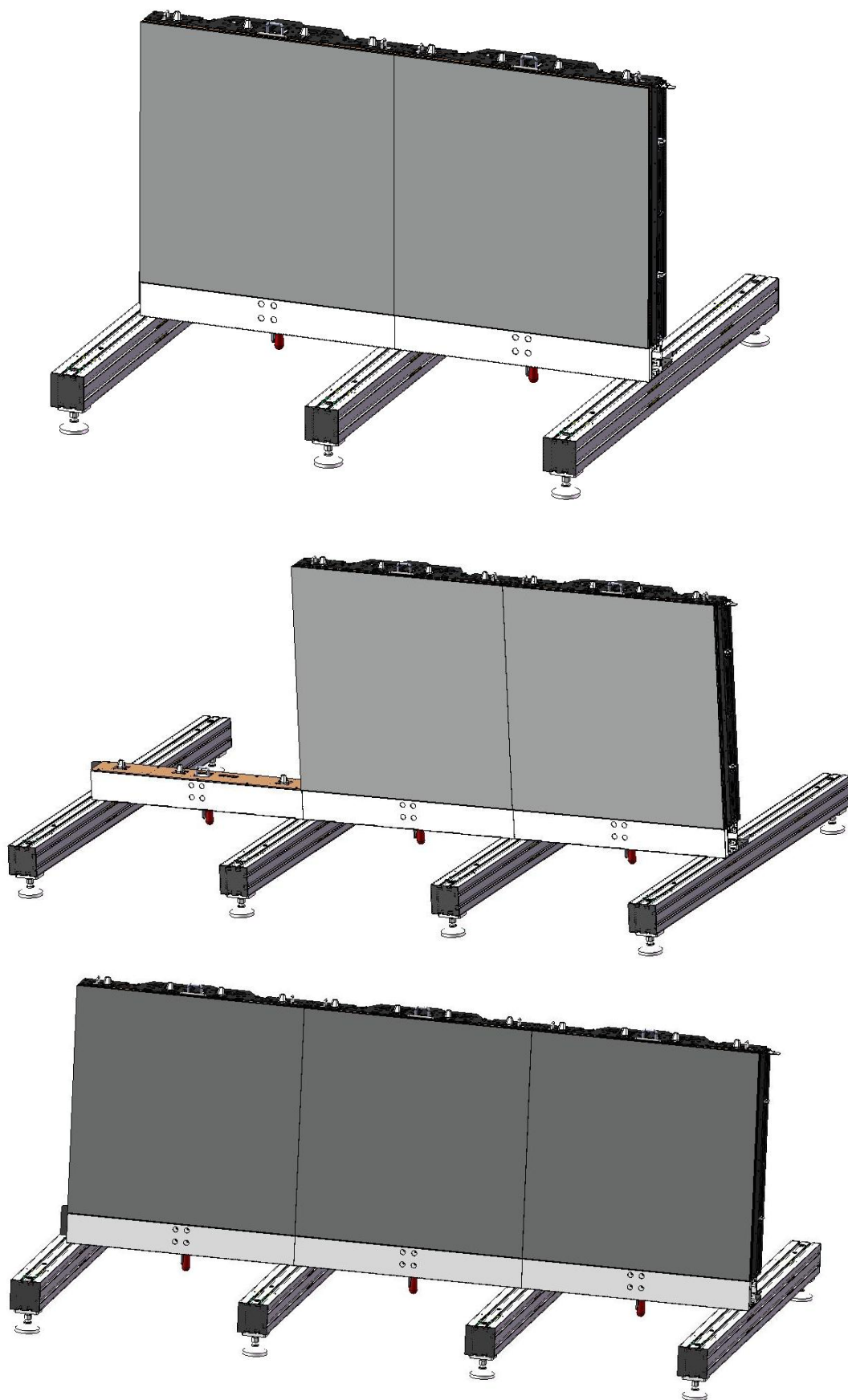


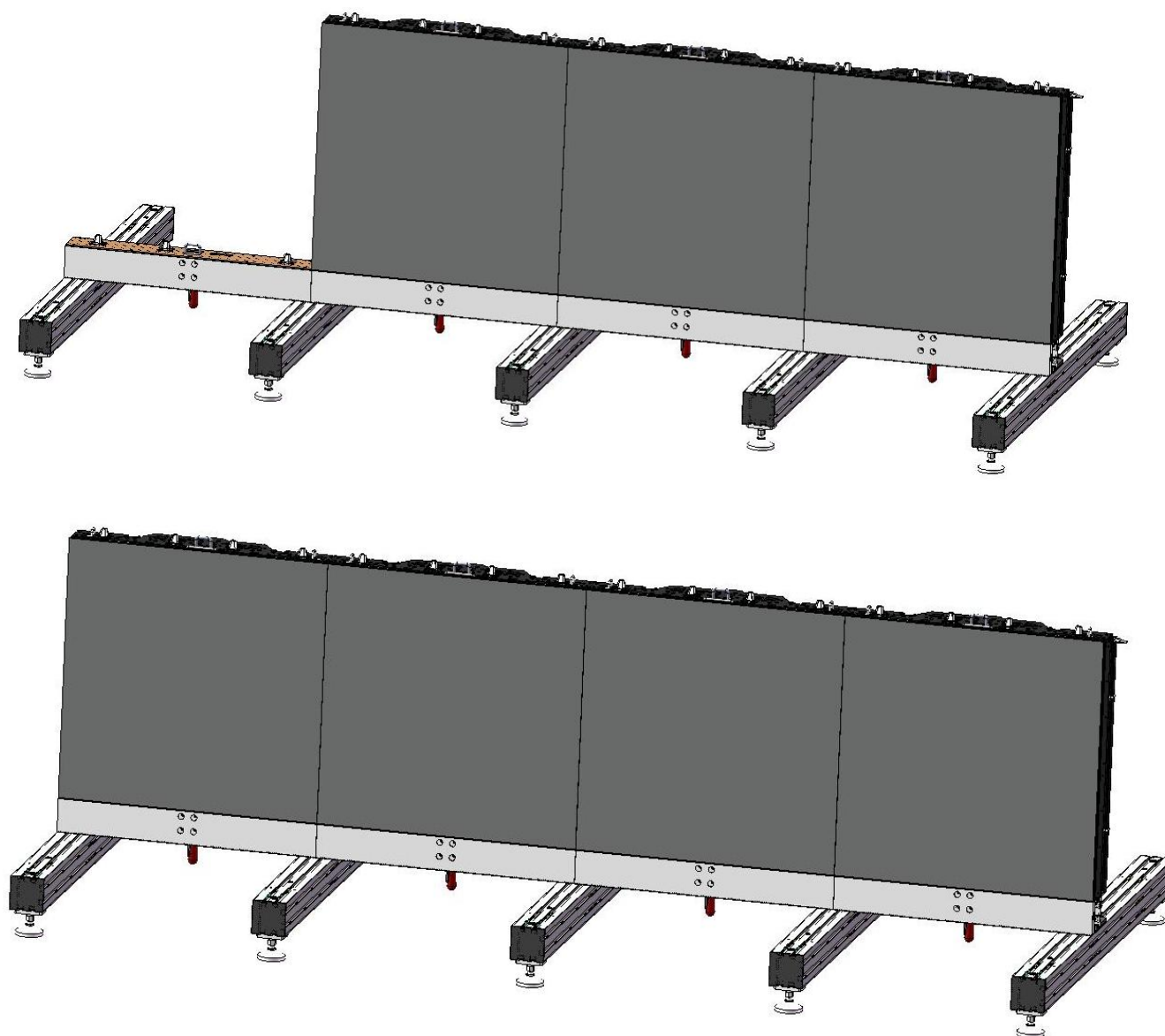
After adjusting the level, connect the cabinet.



2. Assemble several “I”brackets, and install all cabinets of the first row.

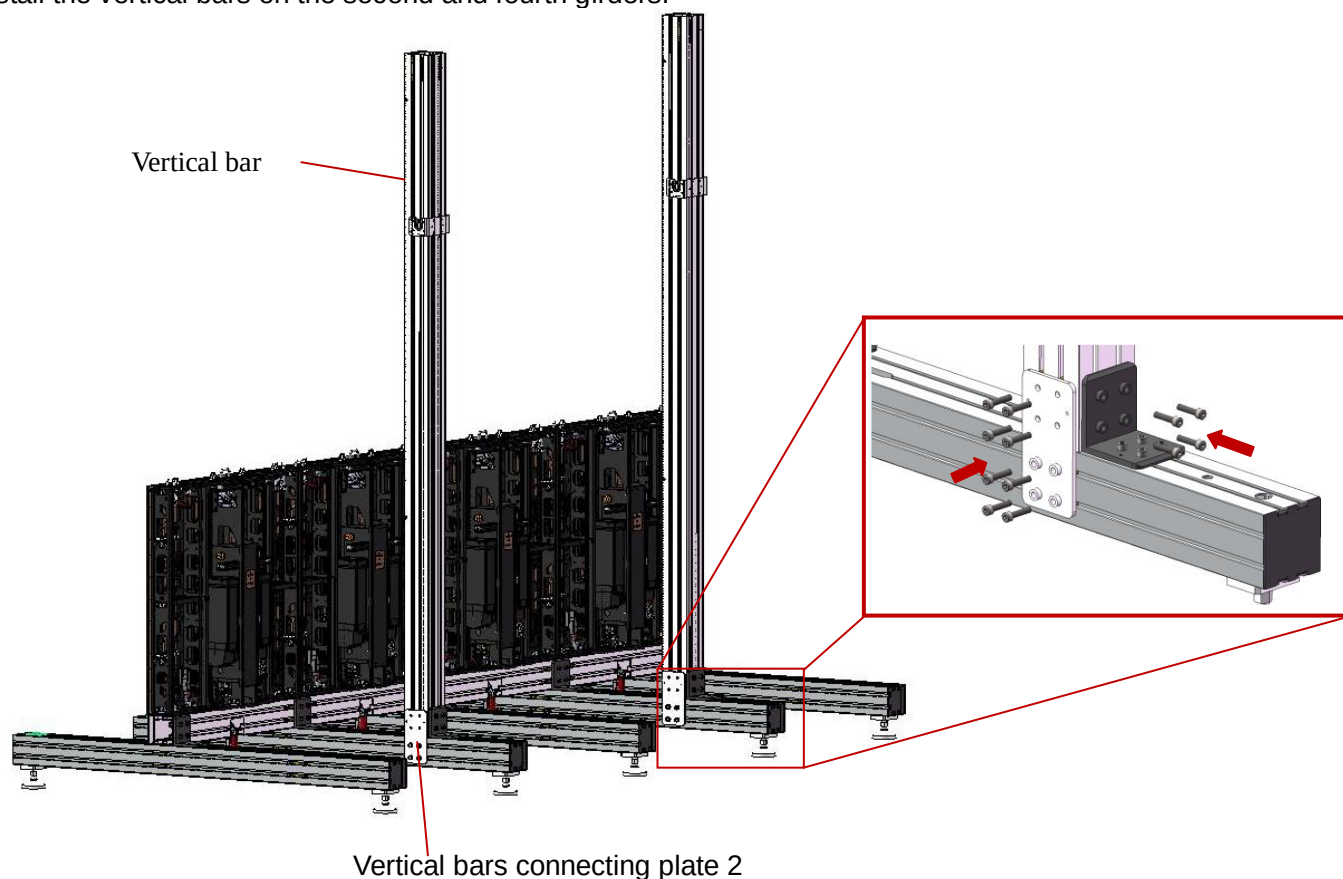






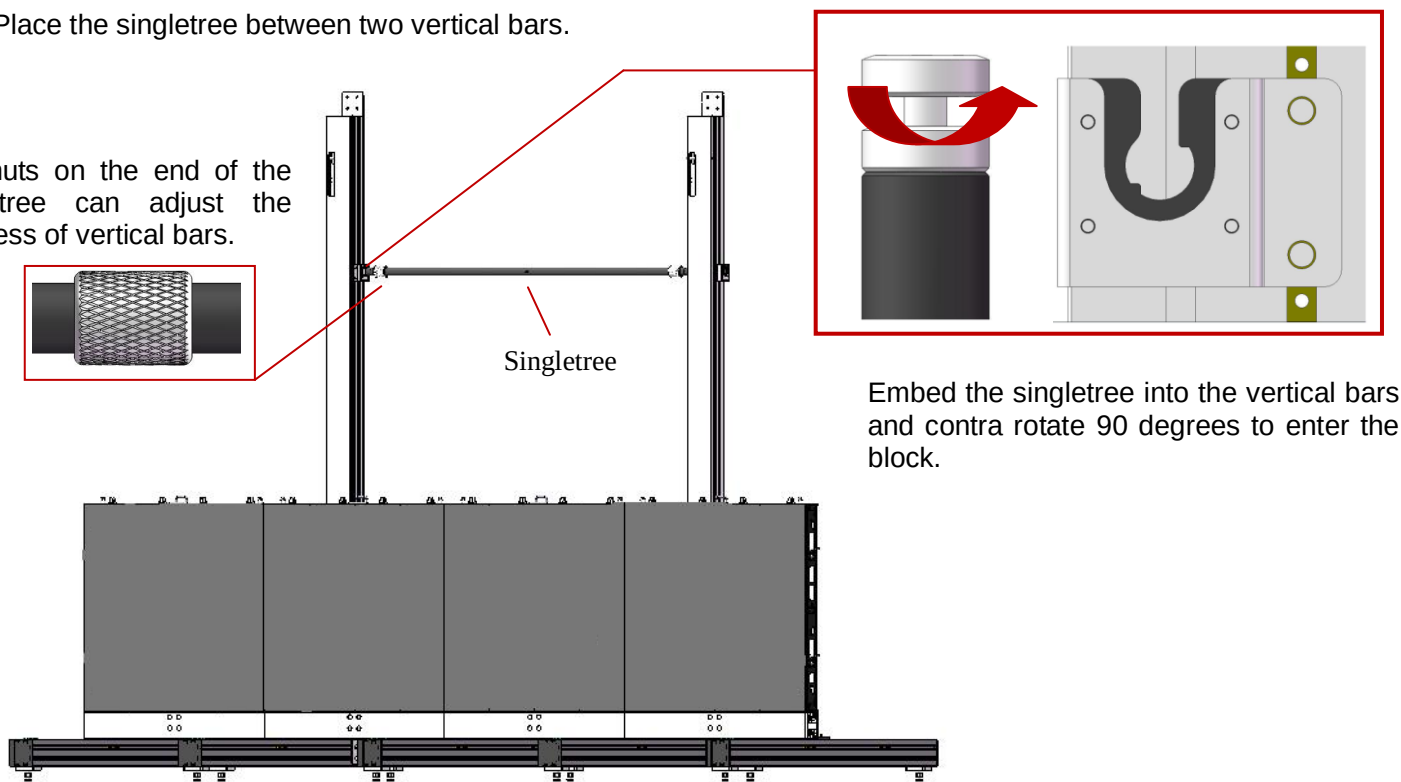
Note: Considering the influence of cabinets' weight, when a row is finished, the level of the bottom should be readjusted.

3. Install the vertical bars on the second and fourth girders.



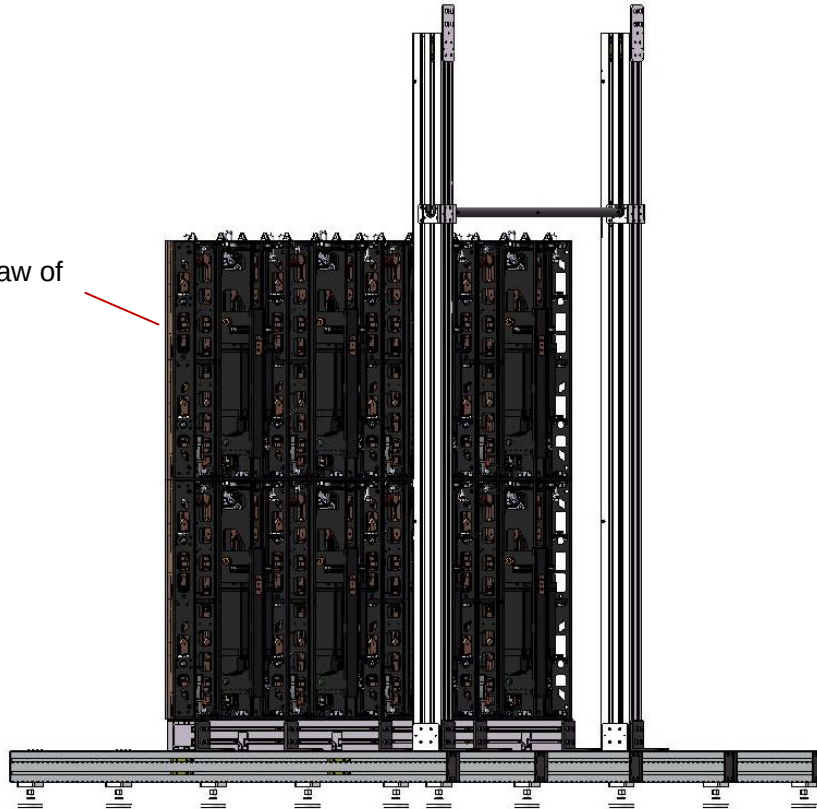
4. Place the singletree between two vertical bars.

The nuts on the end of the singletree can adjust the tightness of vertical bars.

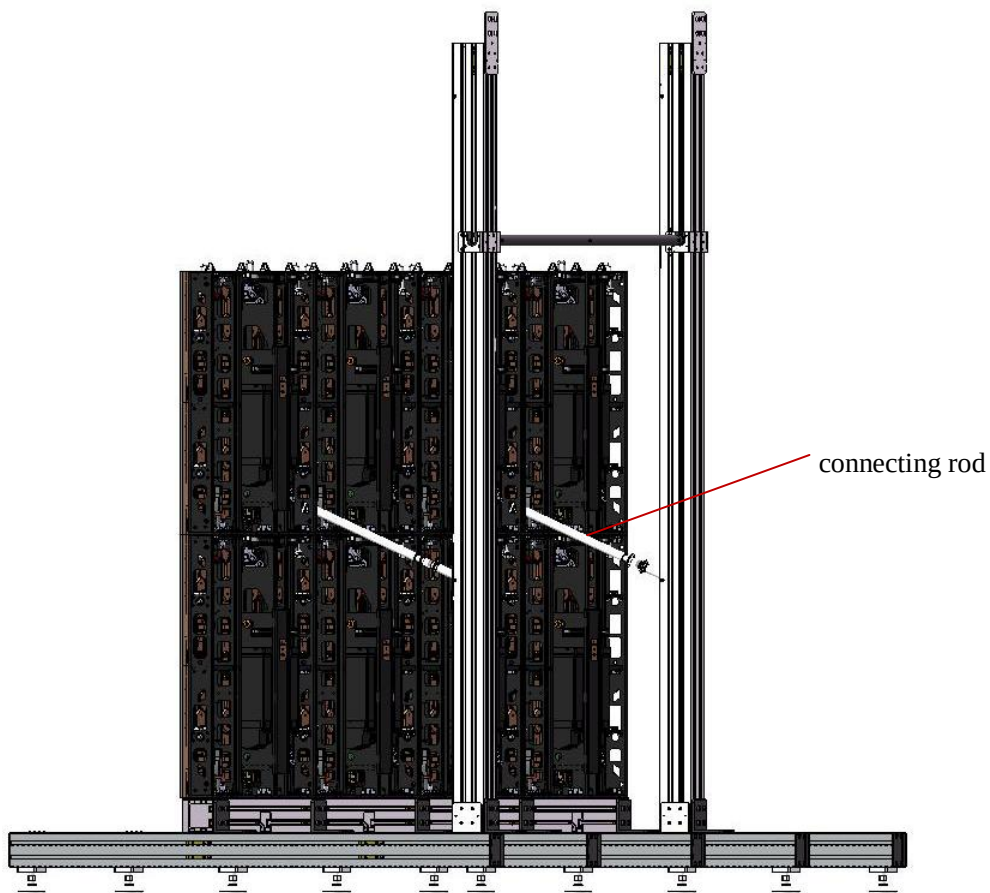


5. Install the second row of cabinets

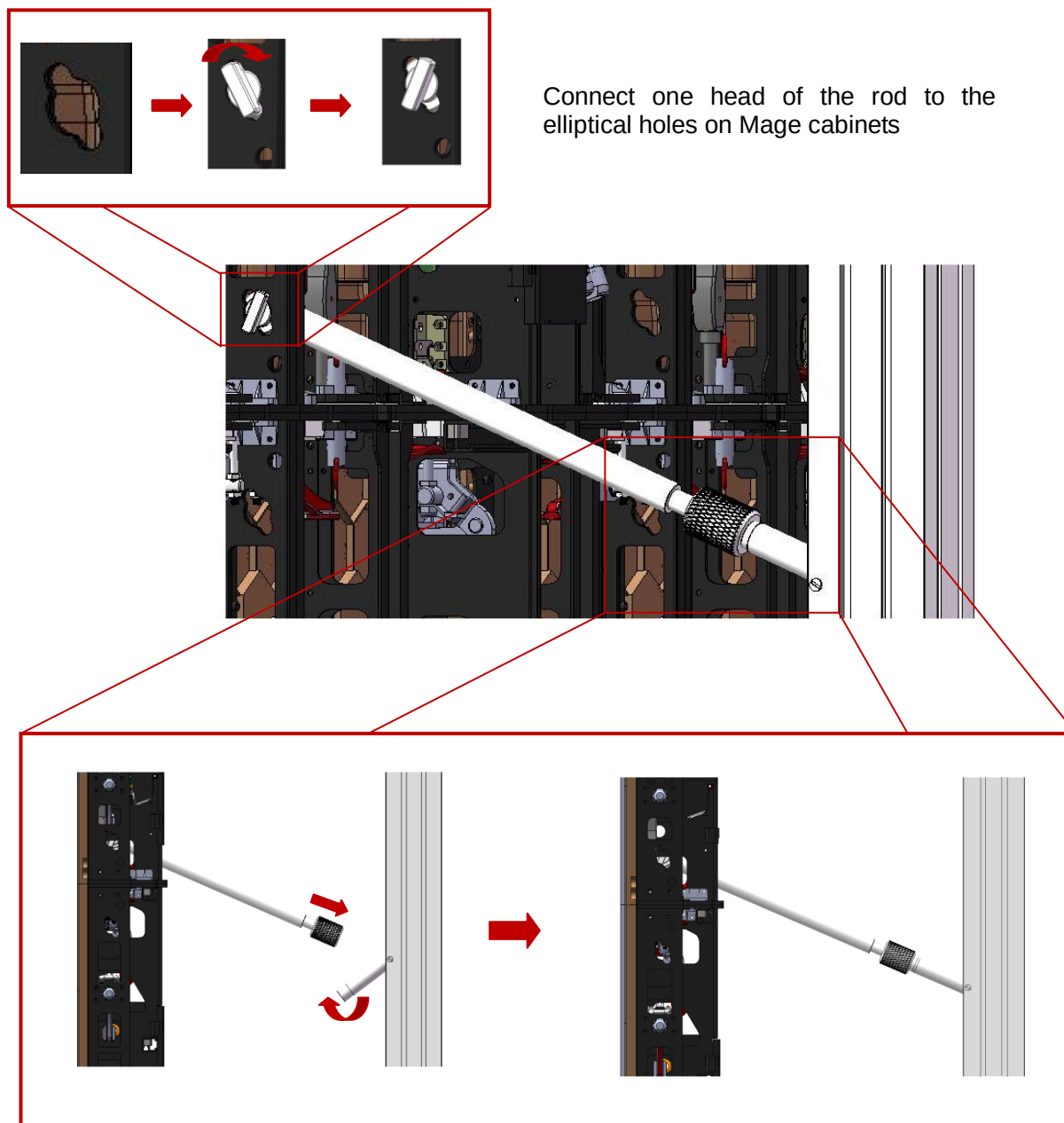
Install the second row of cabinets



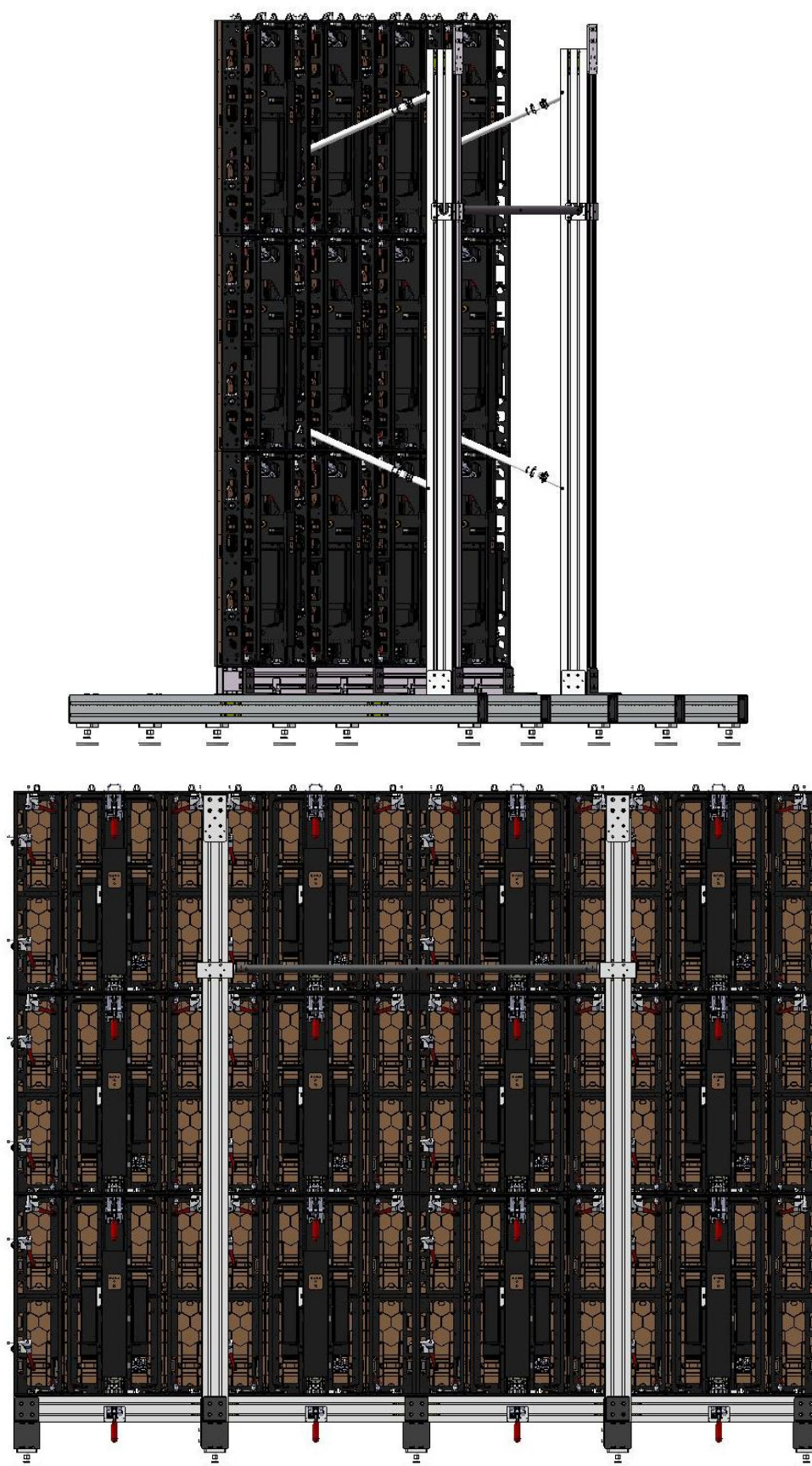
6. Install the connecting rod



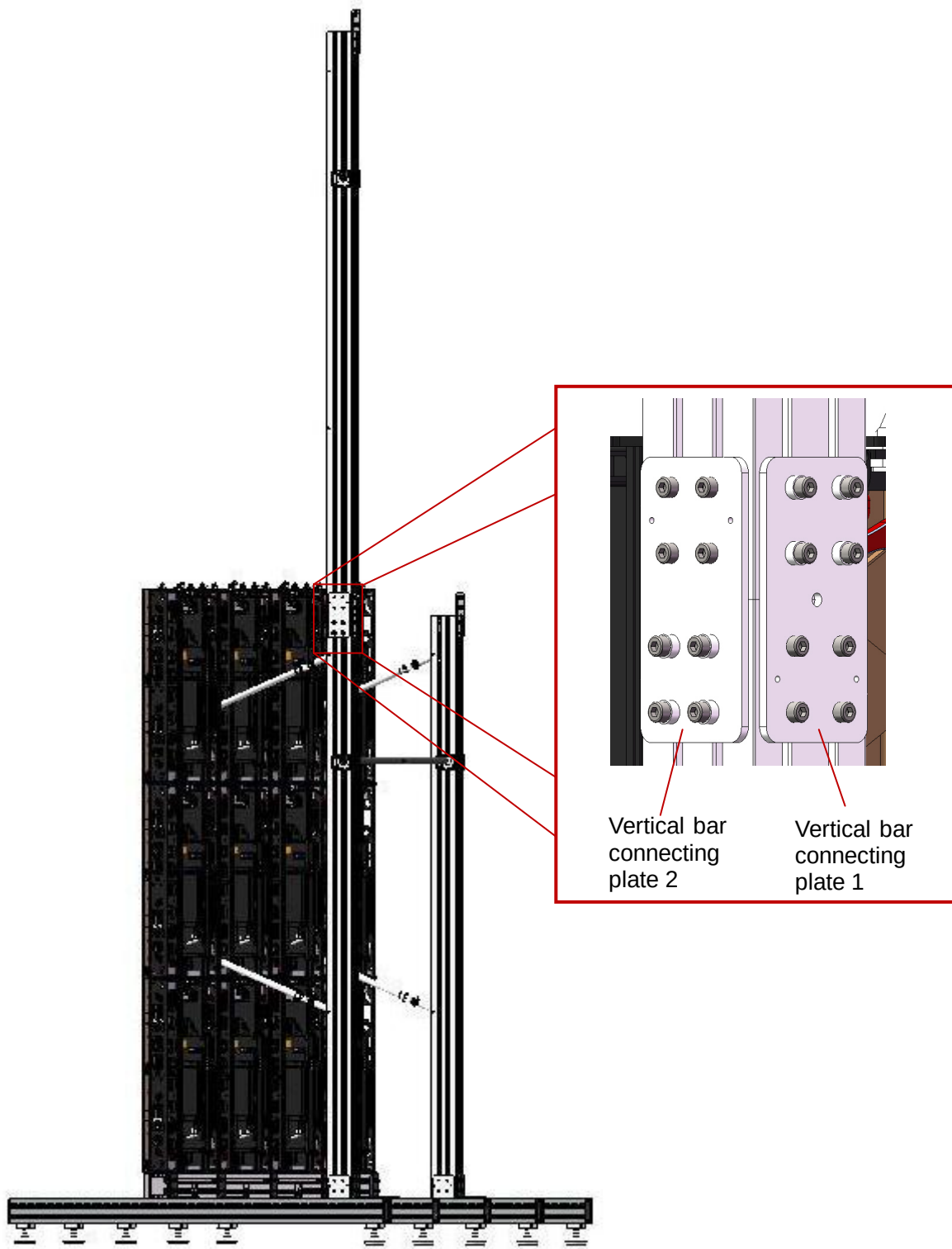
The installation site of connecting rod:



7. As the method described above, install the third row of cabinets.



8. More vertical bars are needed if more cabinets should be installed. Refer to step 3-7.



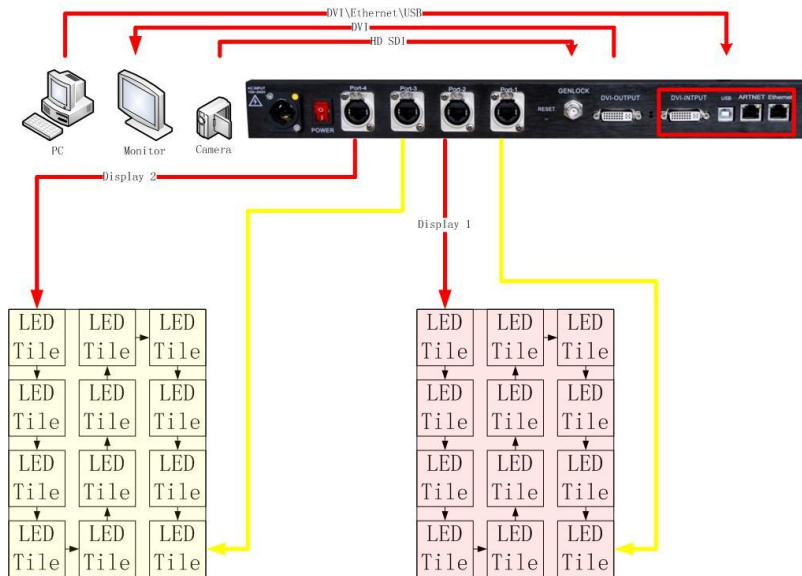
6. System Wiring

This chapter covers the cabinet power wiring and signal wiring.

Overview

- System-Structural Diagram
- Wiring between power supplies
- Wiring of signal cables
- Wiring between cabinets

6.1 System-Structural Diagram

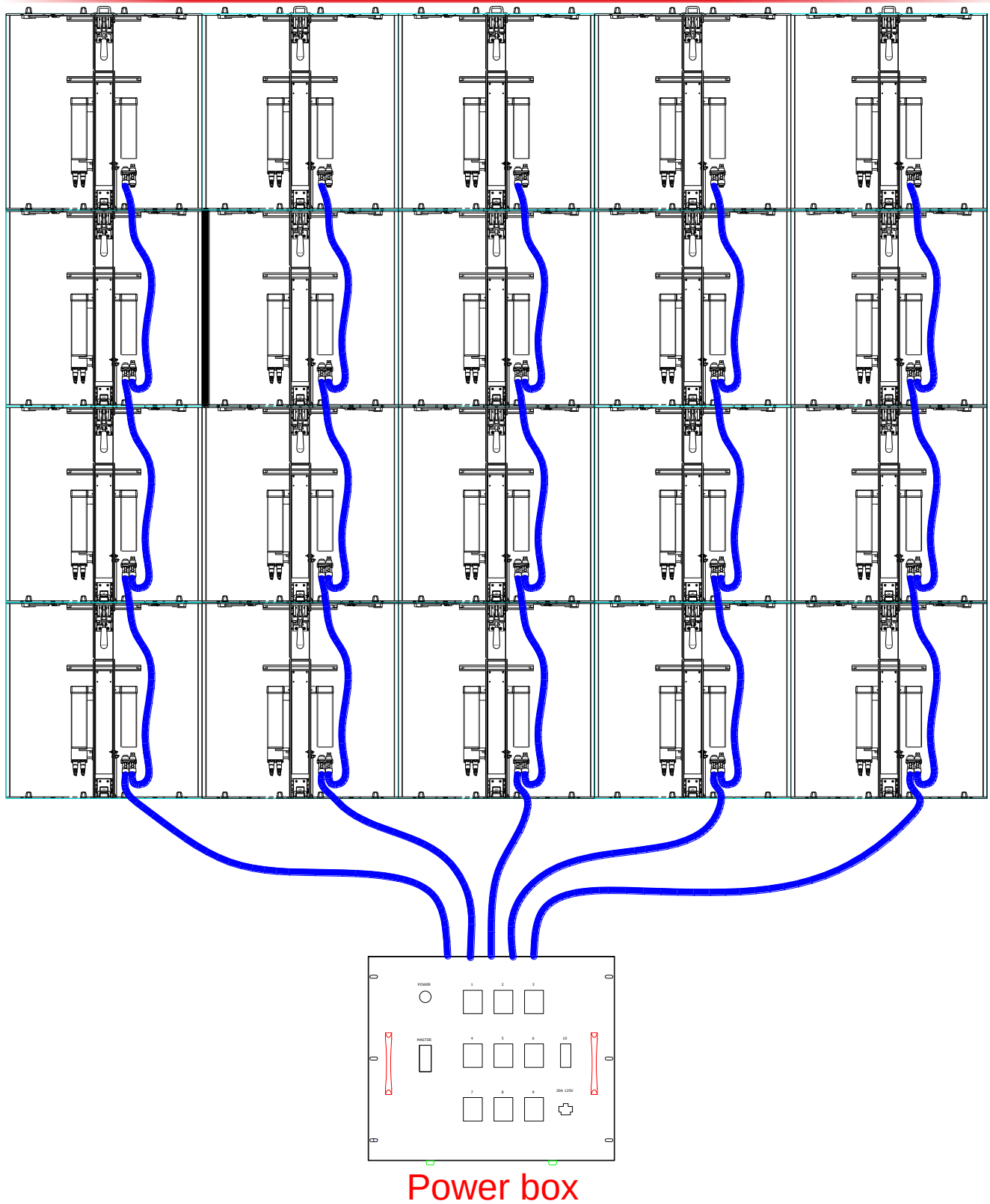


6.2 Wiring between Power Supplies

We can provide several types of Power Supply Unit, Customers can choose the right Power Supply Unit based on the size of their IMPOSA Pro Tour Series display, or we can also provide customized Power Supply Unit for special requirements.

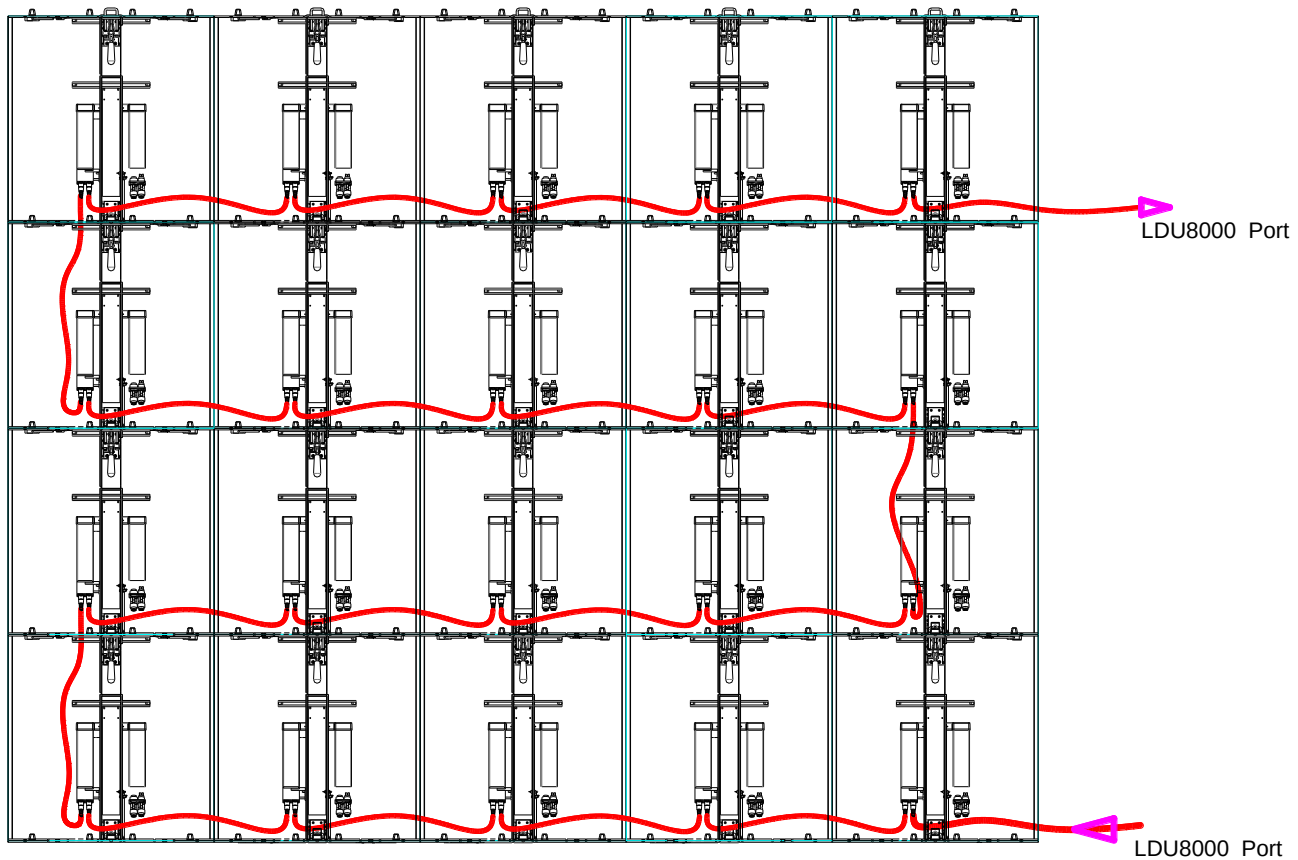
The output of each PSU port is 2.5KW which can support 4 pcs IMPOSA Pro Tour Series cabinets. The wiring of power cable can be horizontal, vertical, or U shape etc. Customers can choose a suitable way according to the actual situation.

Note: If customers use the customized PSU, they need to consider how many cabinets each power supply cable can support. The maximum power consumption of each IMPOSA Pro Tour Series cabinet is 600W.

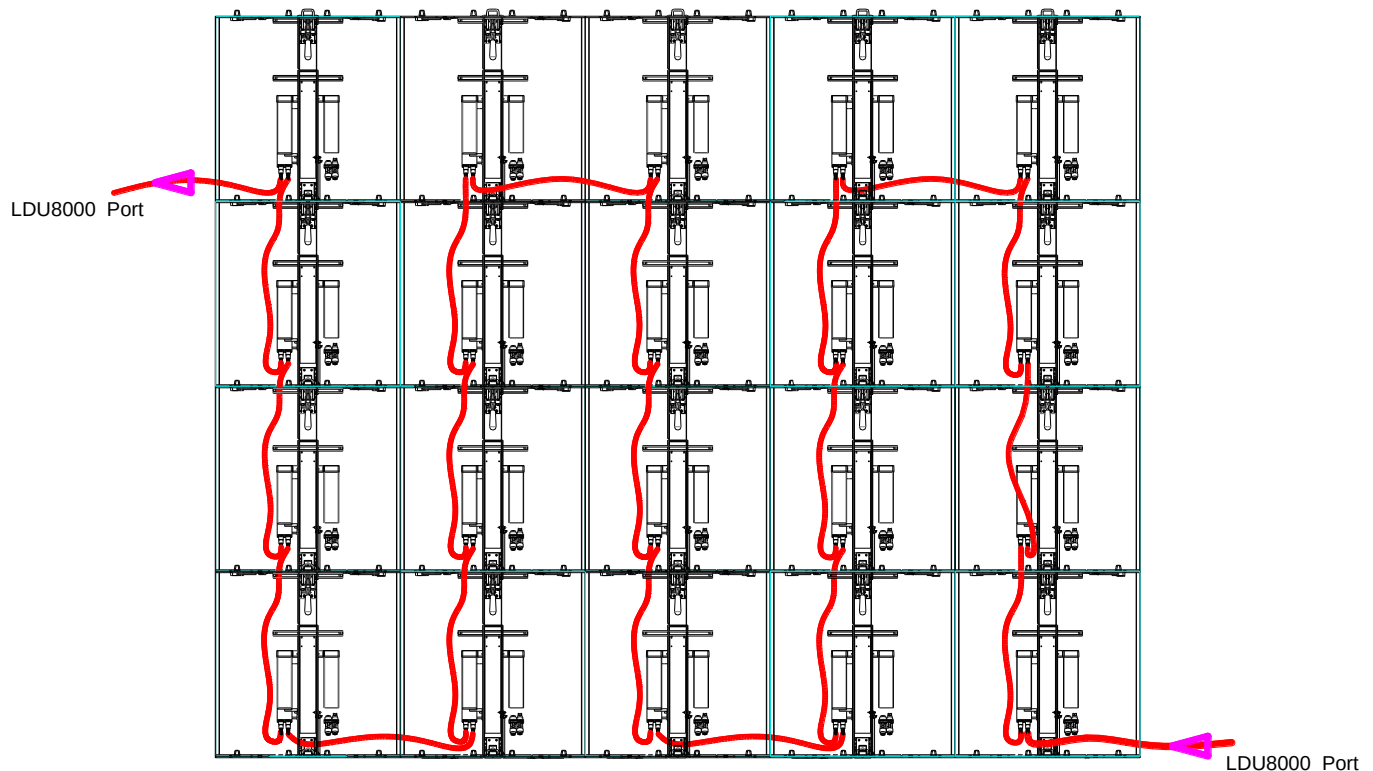


6.3 Wiring of Signal Cables

➤ Horizontal



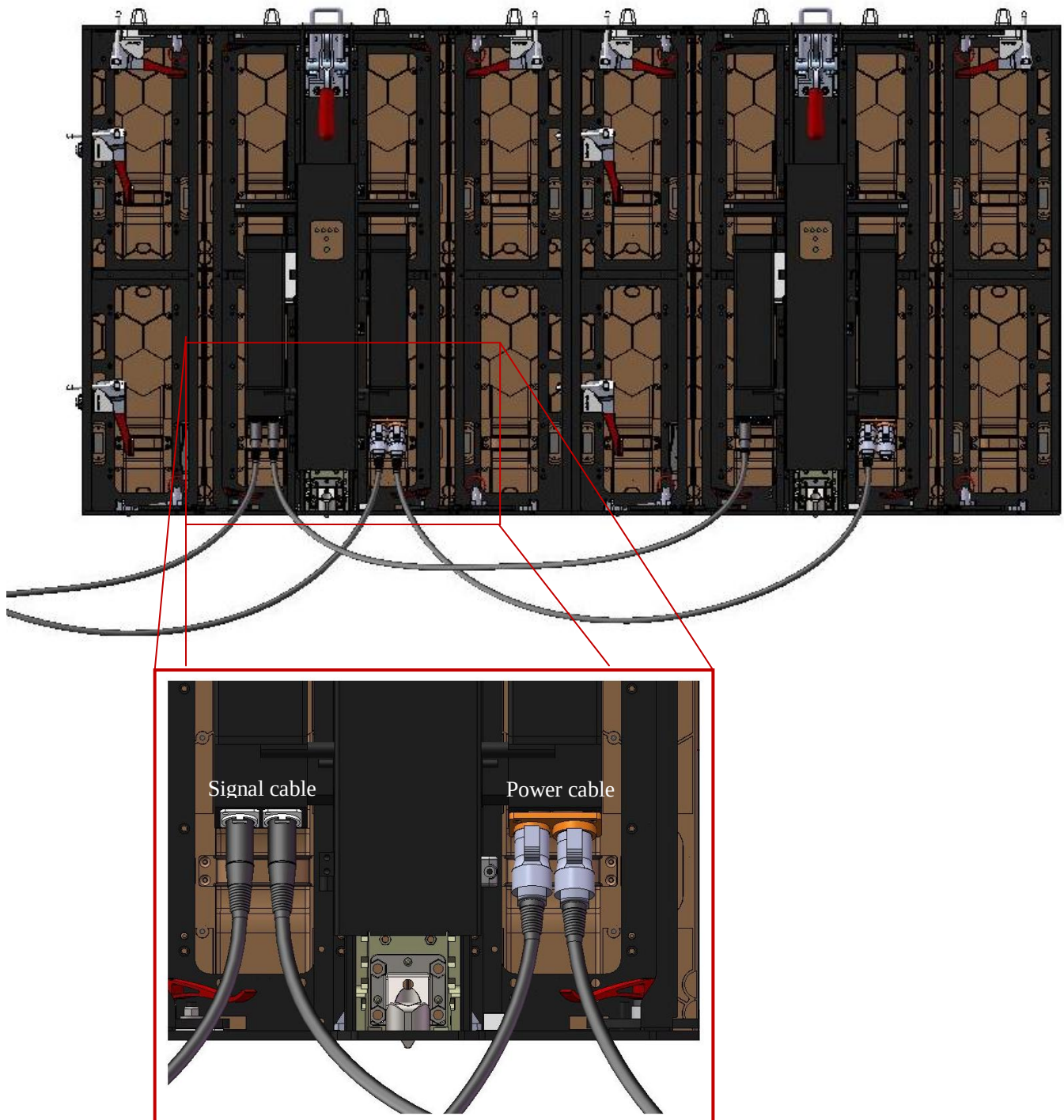
➤ Vertical



Note: 1. There are 4 output ports on LDU8000, each port can support max. resolution 1920 x 340.
 2. The above 2 drawings are the wiring drawing for signal hot backup. One port outputs signal, and the other port is backup signal. Thus, LDU8000 has 2 output ports. If signal hot backup is not necessary, then LDU8000 can support 4 output ports.

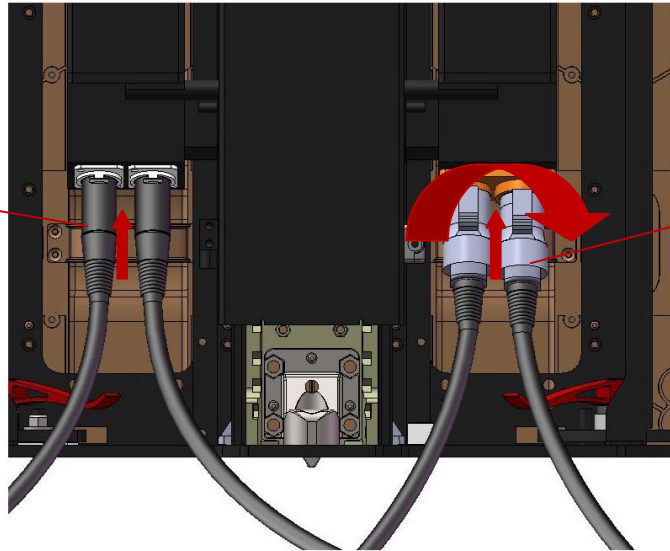
6.4 Wiring between Cabinets

Please see the wiring between cabinets as follow:



How to insert the signal cable and power cable:

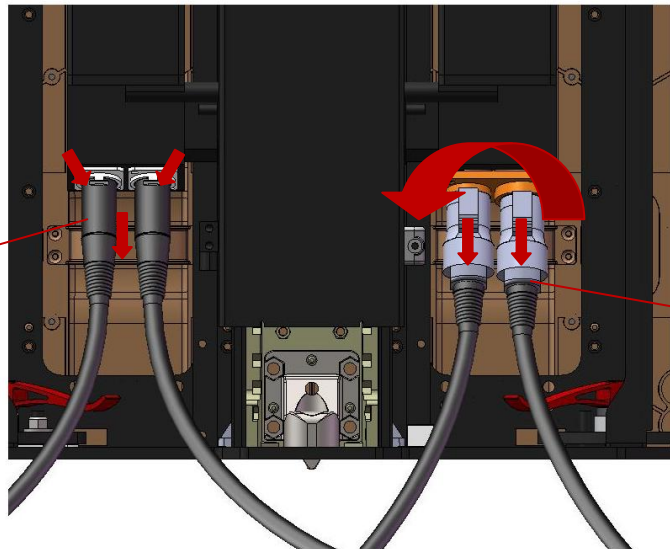
Aim at the groove and insert directly



Spin the connector clockwise to the lock position after inserting correctly

How to unplug the signal cable and power cable:

Press the lock position and pull it out

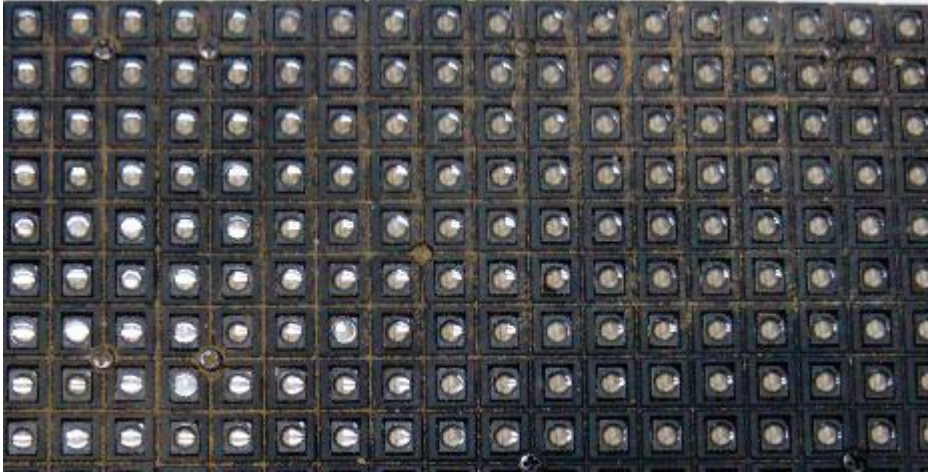


Press the lock position and slide down a little, meanwhile, spin the connector anticlockwise and pull it out

7. Maintenance of the LED Display

Why should we clean the IMPOSA Pro Tour Series modules?

After a long time work outside, outdoor display will be exposed to various kinds of weather conditions, and can easily be smeared with grit, dust, smog etc., thus affecting the normal functioning of the IMPOSA Pro Tour Series module. It is therefore necessary to clean the surface of the LED Display regularly.



Clean the LEDs and tile the masks of the IMPOSA Pro Tour Series module

Regularly cleaning of the IMPOSA Pro Tour Series modules can reduce the overall brightness difference due to the dust.

Necessary tools:

- Sprayer with neutral detergent
- Soft brush with long hair
- Garden hose with a spray nozzle
- Compressed air

How to clean outdoor IMPOSA Pro Tour Series modules

1. Remove the power cables and signal cables. Seal the signal connector and power connector inside the control box;
2. Make sure the unused output port is sealed;
Spraying the modules with neutral detergent in front from different angles and directions(Do not spray from the back of the module);
Note: Do not use industrial lubricant. Only embedded, wearable, corrosion resistance and trackless materials or chemicals can be used.
3. Use a soft brush to clean all the rubbish and dirt on the LEDs and masks;
Note: Do not use a hard brush.
4. Use clean water to thoroughly clean the redundant bubbles;
Note: Do not put the whole IMPOSA Pro Tour Series cabinet totally or partly into the water or other liquid;
5. Repeat from step 3 until the modules are clean enough.
6. Use compressed air to dry up the display surface.

How to clean indoor IMPOSA Pro Tour Series modules

Unlike outdoor IMPOSA Pro Tour Series modules, indoor IMPOSA Pro Tour Series modules are non-watertight. You cannot clean the indoor modules with water. Compressed air should be used to clean the dust on the surface.

8. Trouble Shooting

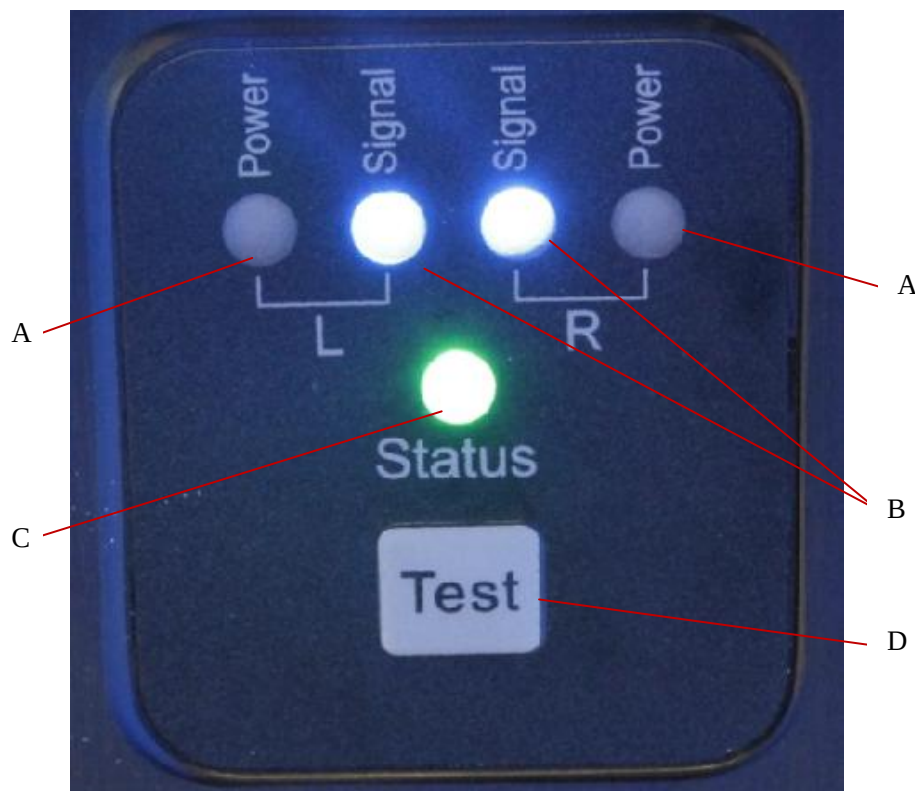
This chapter introduces some possible trouble symptoms and their remedial treatment to the IMPOSA Pro Tour Series display.

Overview

- The indicators in the back of the cabinet
- Fault diagnosis
- How to replace a IMPOSA Pro Tour Series module
- How to replace a power supply
- How to replace a control board

8.1 The Indicators in the Back of the Cabinet

The cabinet indicators include power indicator, signal indicator, and status indicator which can help to tell whether the power is failure or not, whether the control board work well or not, and whether the signal cable connects well.



Items	Name	Description
A	Power indicator	Red light stands for power failure; No lights on stands for power ok. It has both left and right indicators.
B	Signal indicator	When blue light flashes at 1 second's frequency, it shows data communicating. While when blue light flashes at 0.5 second's frequency, it shows no data communicating. It has both left and right indicators.
C	Status indicator	Red light shows the cabinet control board is starting; Green light shows that the cabinet works well; Yellow light(red and green lights are on at the same time) shows the control board failure.
D	Test button	Press the test button for 5 seconds to enter the testing status. The cabinet will repeatedly display scanning lines, full red, full green, full blue, full white. Press the test button for another 5 seconds to return to the working status.

8.2 Fault Diagnosis

Symptom	Check items	Solutions
The whole screen is not displaying	There is no power into the screen	Power on
	DVI cable is not connected	Connect the DVI cable
	The signal cable between LDU8000 and IMPOSA Pro Tour Series cabinet is not connected	Connect the signal cable between them
	The control board indicator of IMPOSA Pro Tour Series cabinet flashes slowly	Check the connector of network cable or replace the network cable
	Computer screen protection system	Cancel the computer screen protection system and hibernation
	The displaying area is all black	Show display content
The whole screen keeps showing random contents	The LDU8000 program does not match	Upgrade the LDU8000 program
	The first IMPOSA Pro Tour Series cabinet control board failure	Replace the control board
	All the IMPOSA Pro Tour Series cabinet control board program is not correct	Upgrade the program
	The control board doesn't have brightness data	Close the pixel calibration mode
The cabinet is not displaying	There is no power into the cabinet	Power on
	The power cable is not connected well	Make sure the power cable is connected well
	The cabinet signal cable is not connected	Connect the cabinet signal cable
	The signal connector failure	Replace left power box
	No power output	Replace right power box
	the control card at the bottom of the control box failure	Replace
	Control box cable accessories failure	Replace
The cabinet keeps showing random contents	Control board program is not correct	Upgrade the program
	Control board failure	Replace the control board

The LED module is not displaying or keeps showing random contents	Control board failure	Replace the control board
	LED module failure	Replace
	The D-shape connector is not connected well	Make sure the D-shape connector is connected well
	The control board current gain is not correct	Re-write the current gain data or replace the control board with current gain data
One unit shows a different color	The control board does not have brightness data	Re-write the brightness data
	control board failure	Replace the control board
Some LEDs are dead	The LEDs are broken	Replace the LED module

8.3 How to Replace a Module

Necessary tools:

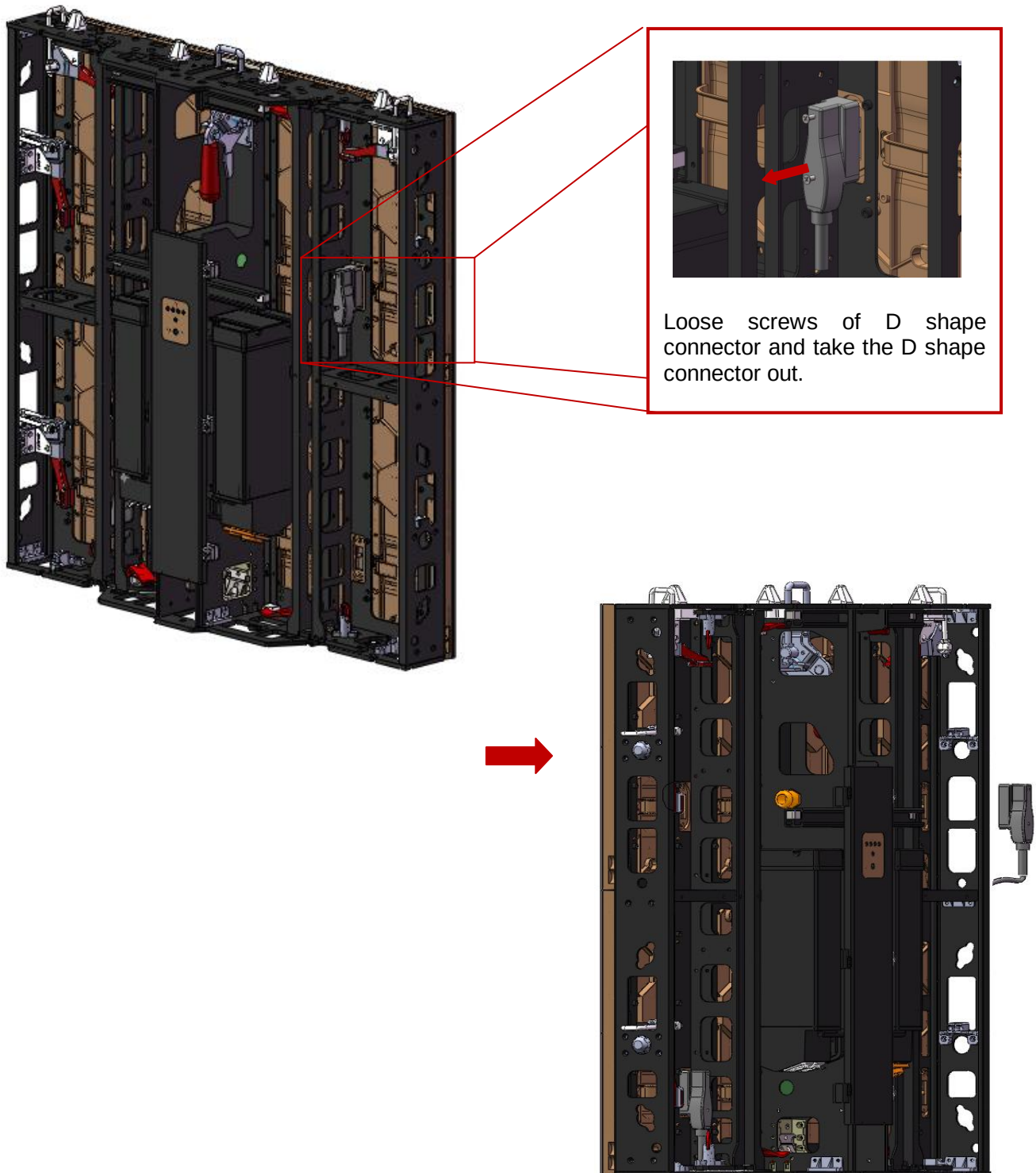
Cross head screw driver

Necessary components:

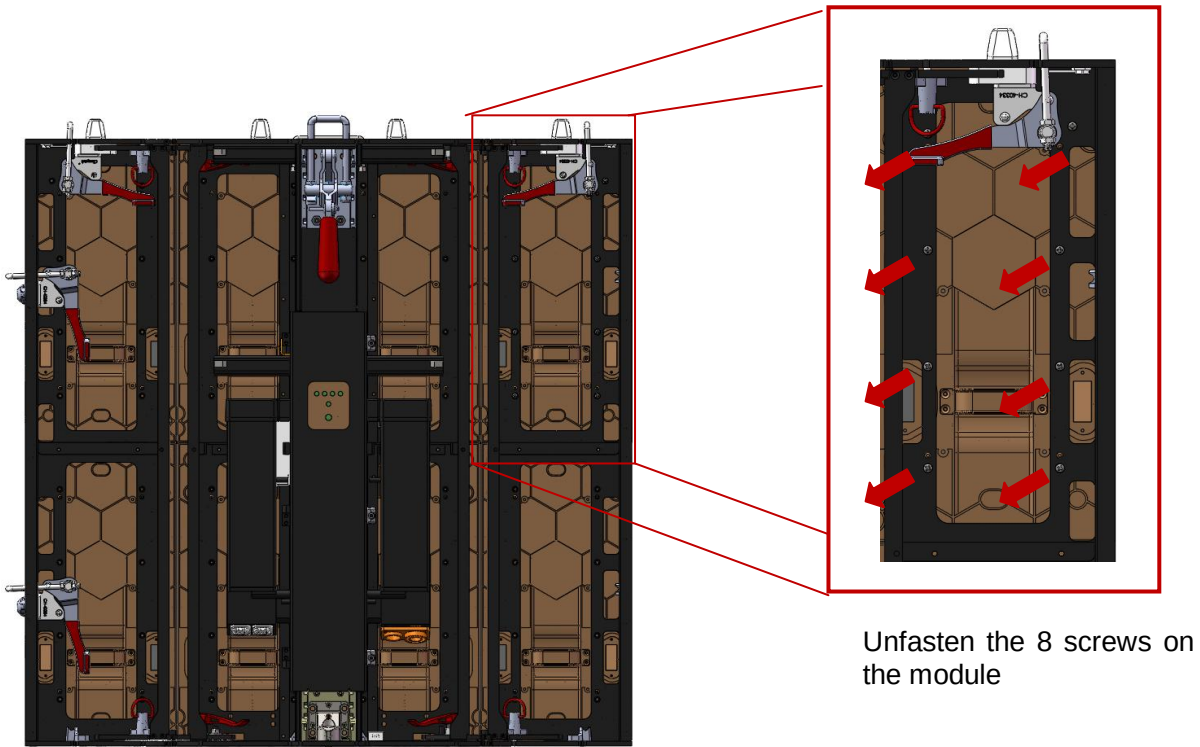
IMPOSA Pro Tour Series module

Process to replace a module

1.Remove the PLUS D-shape connector on the module as follow:



2. Unfasten the screws on the back of the module as follow:



3. Pull the module out



4. Install the module on the contrary steps.

8.4 How to Replace the Power Supply

Necessary tools:

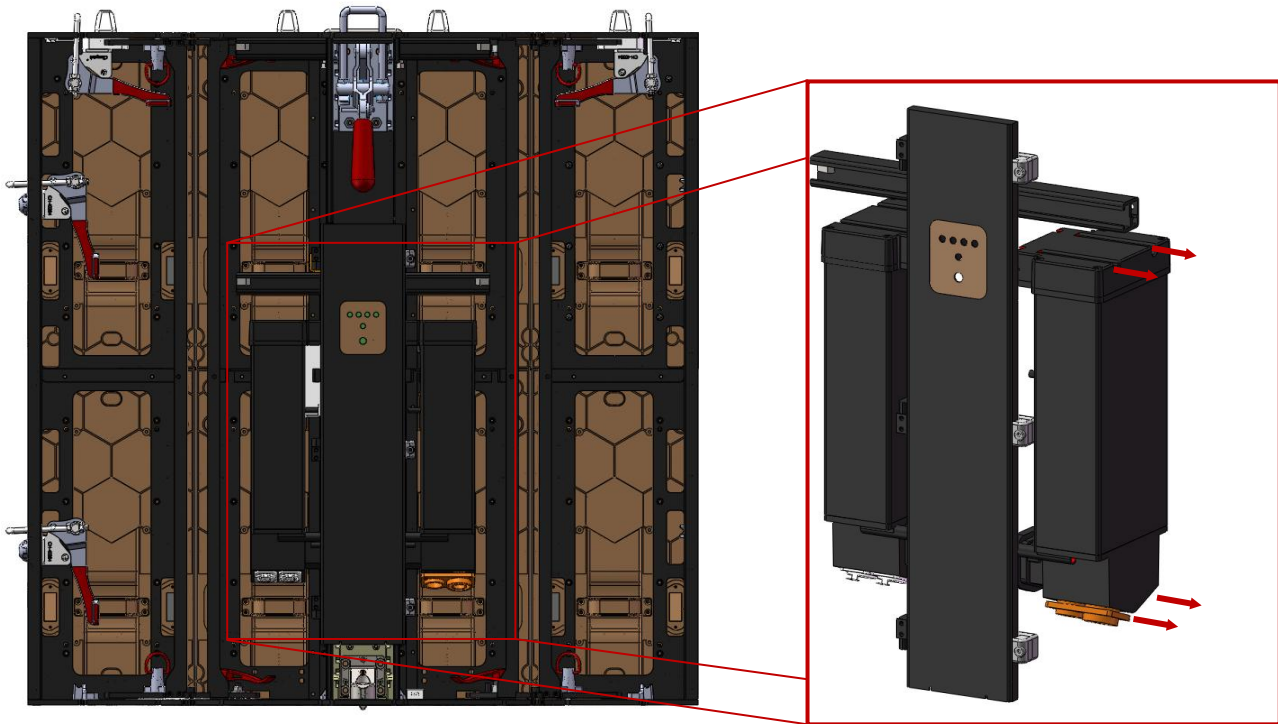
Cross head screw driver

Necessary components:

A power supply

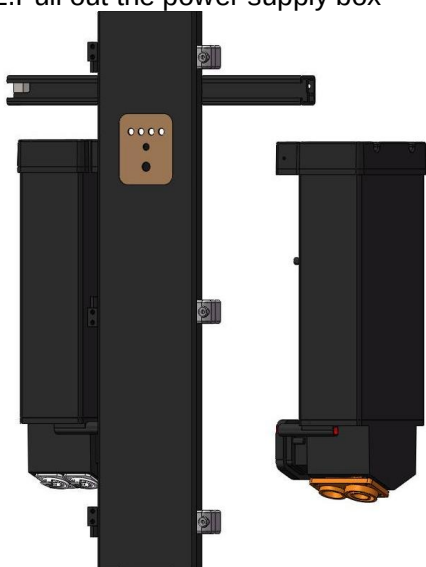
Process to replace a power supply

1. Unfasten the screws on the side of the power supply box



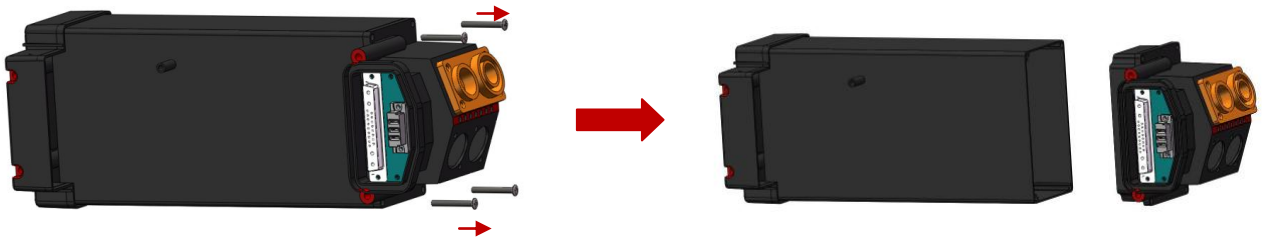
Loose screws on the side of power box,
4 pcs in total

2. Pull out the power supply box



Pull out the power
supply box by some
force

3. Unfasten the screws on the bottom of the power supply box and remove the bottom part (The power supply will be pull out as well)



4. Install the power supply on the contrary steps.

8.5 How to Replace the Control Board

Necessary tools

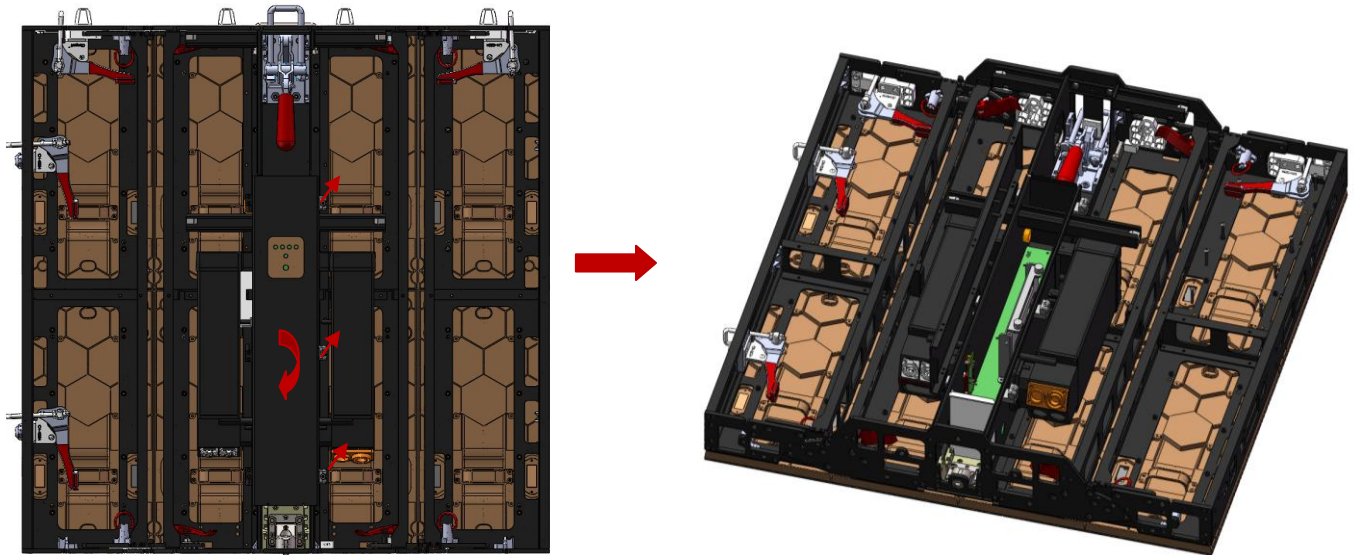
Cross head screw driver

Necessary components

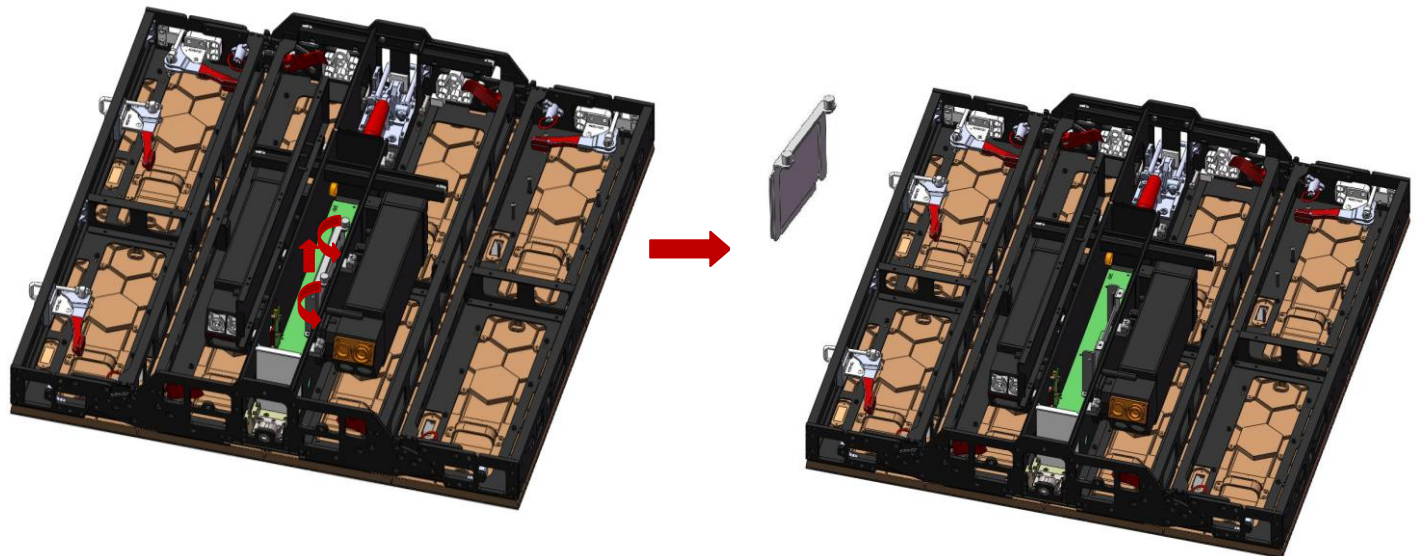
A control board

Process to replace a control board

1. Unfasten the 3 screws on the control box door, and then open the door



2. Unfasten the screw on the control board by hand, and pull out the control board



3. Install the control board on the contrary steps.

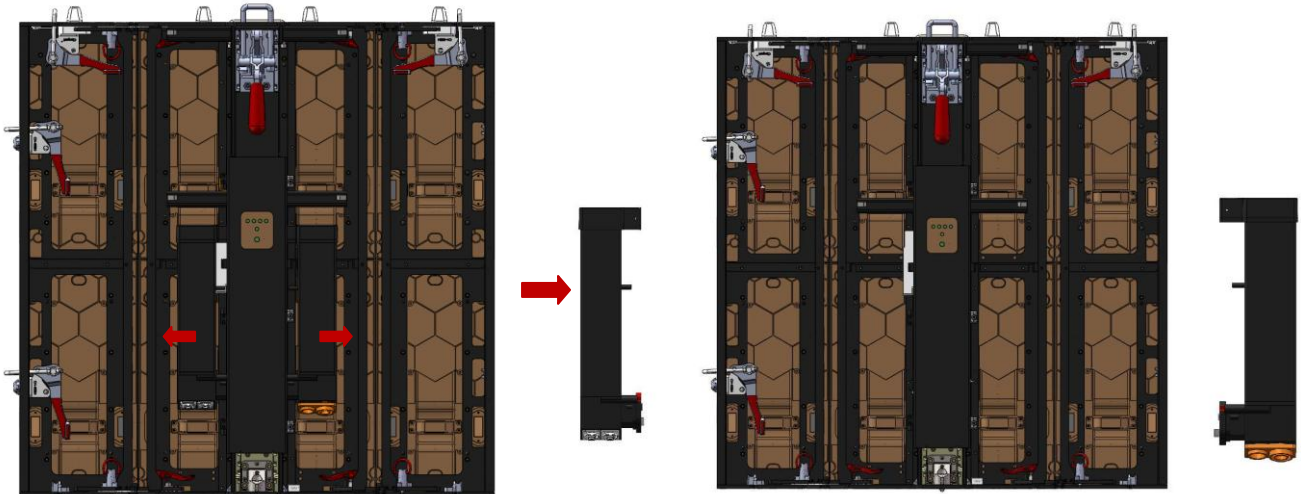
8.6 How to Replace the Baseboard

Necessary tools
Cross head screw driver

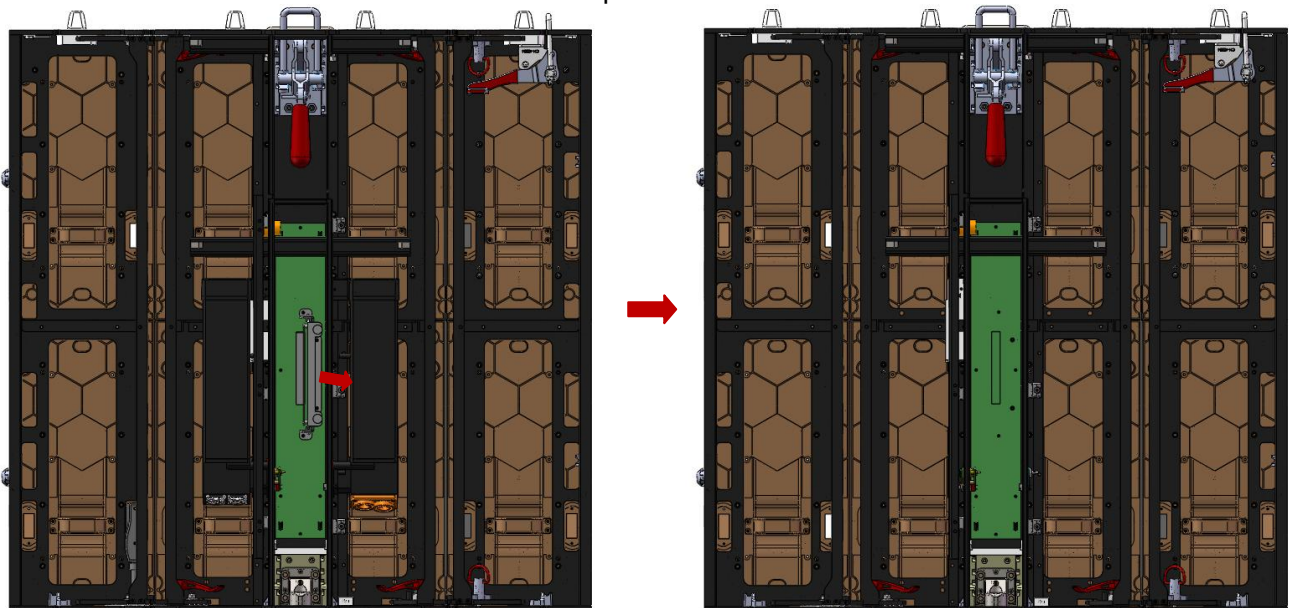
Necessary components
a baseboard

It's a little complicated to replace the baseboard, please see the specific steps as follow:

1.First, remove the power supply boxes on both sides of the control box. You can refer to the above steps of removing the power supply box



2.Remove the control board refer to the above steps.



3.Remove the power connectors on both sides of the control box.

Unfasten the 4 screws as follow

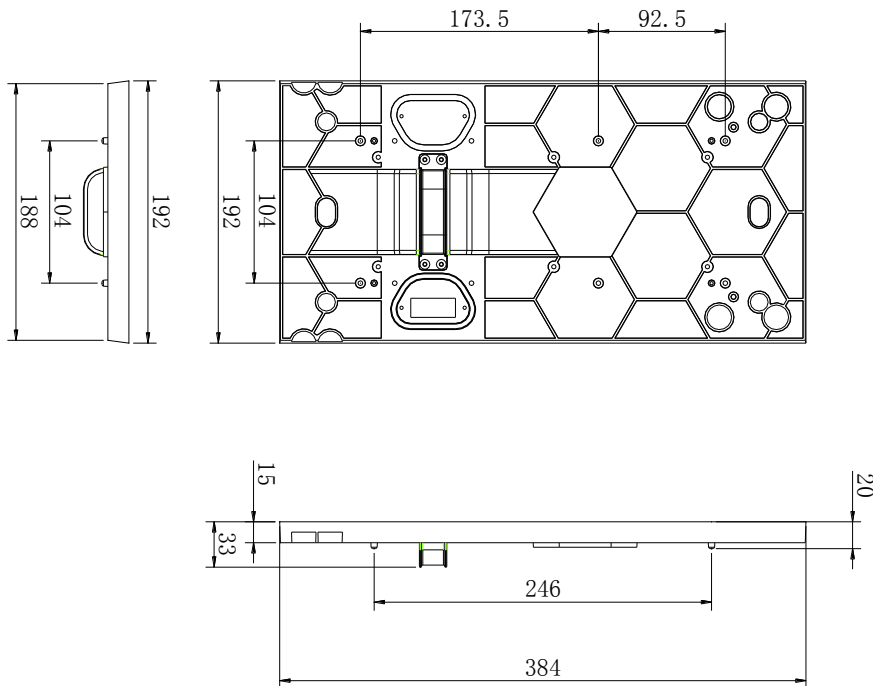


4. Unfasten all the screw around the baseboard and pull out the baseboard

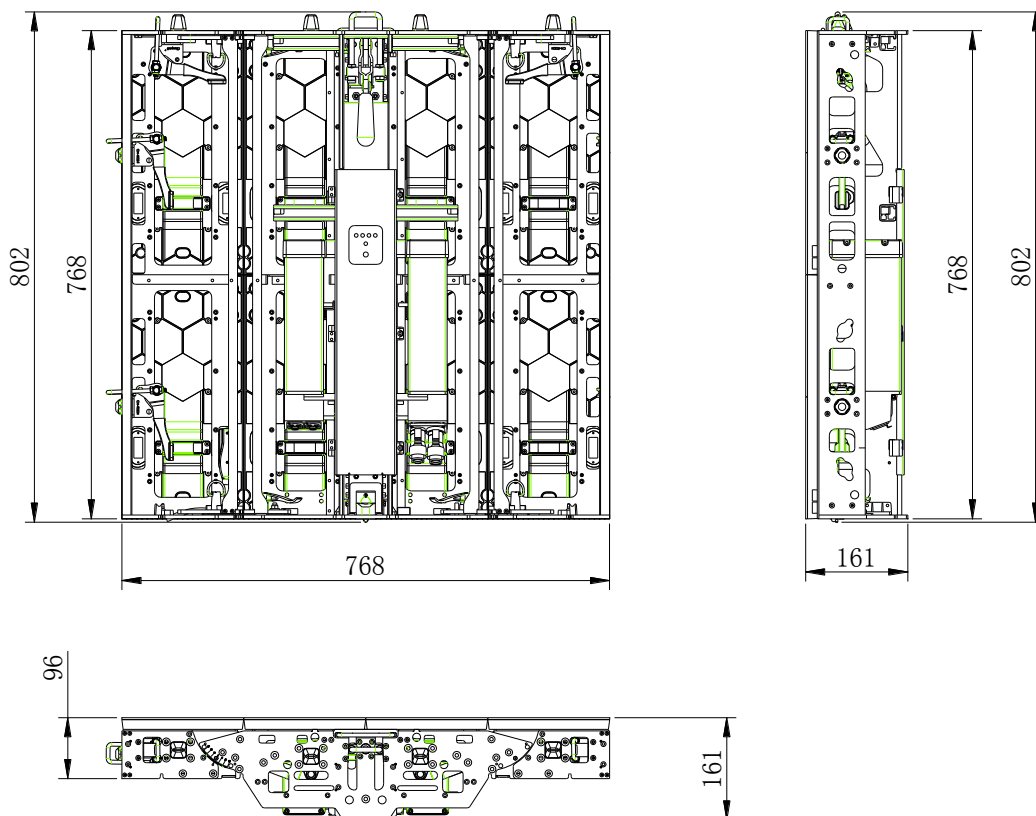


9 Appendix 1 Size

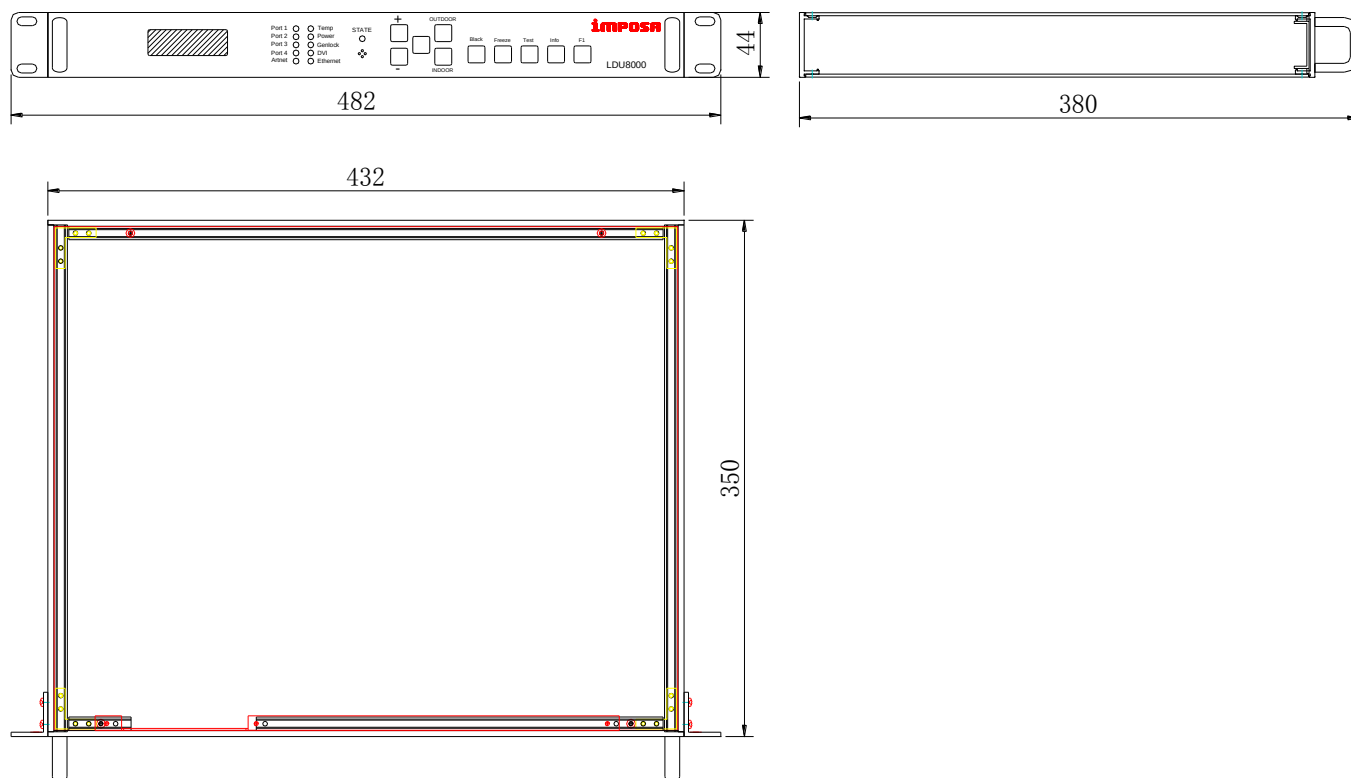
9.1 Size of a Pro Tour Series Module



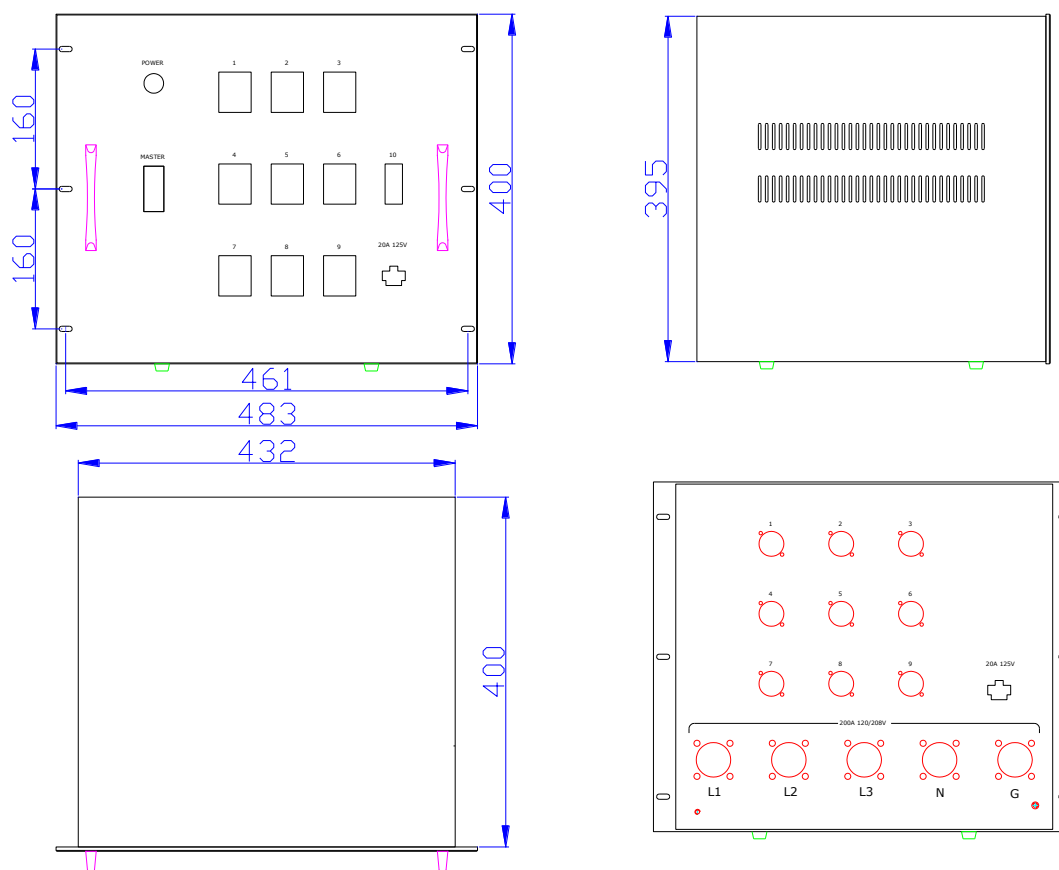
9.2 Size of a Pro Tour Series Cabinet



9.3 Size of an LDU8000

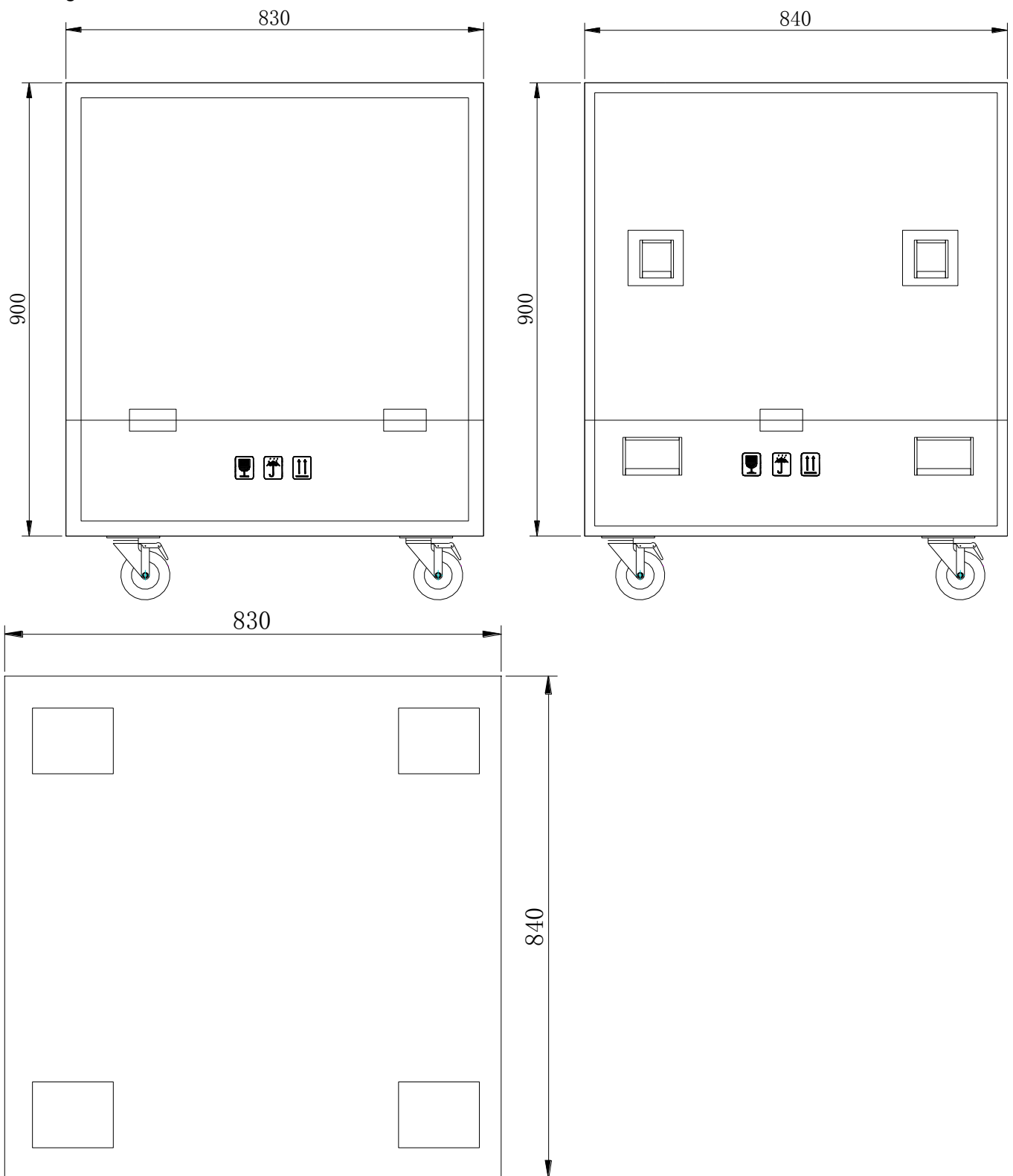


9.4 Size of a PSU

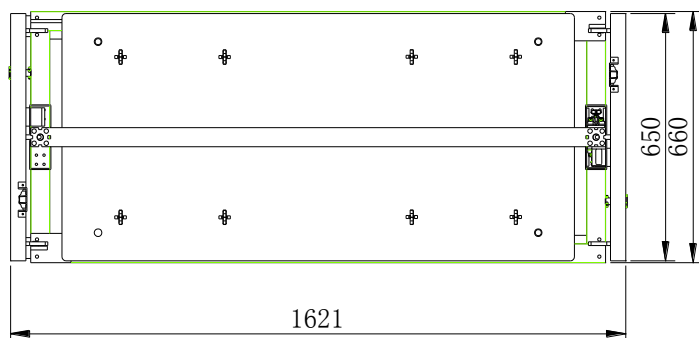
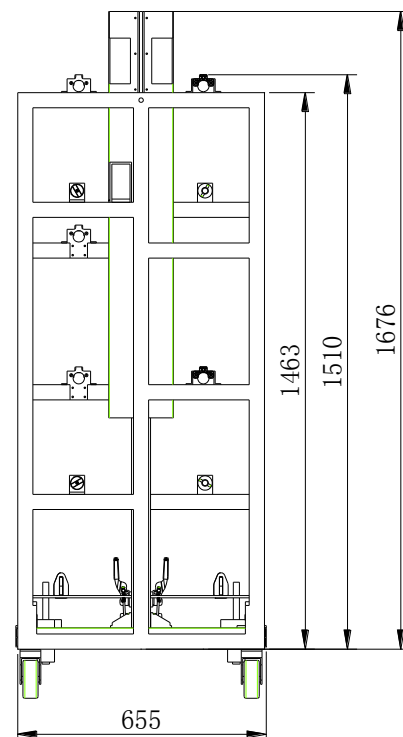
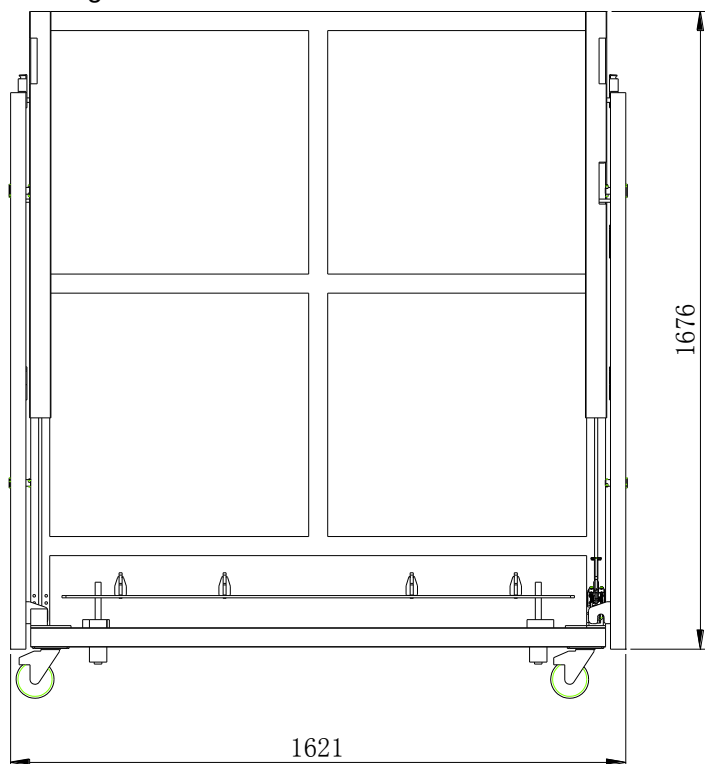


9.5 Size of a Flight Case

- **Flight case 1**

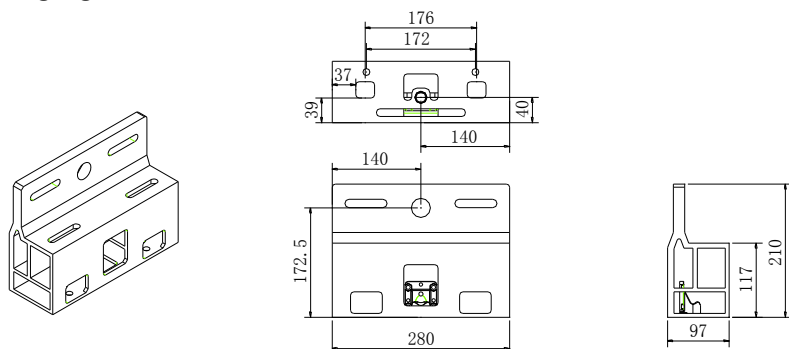


● Flight case 2

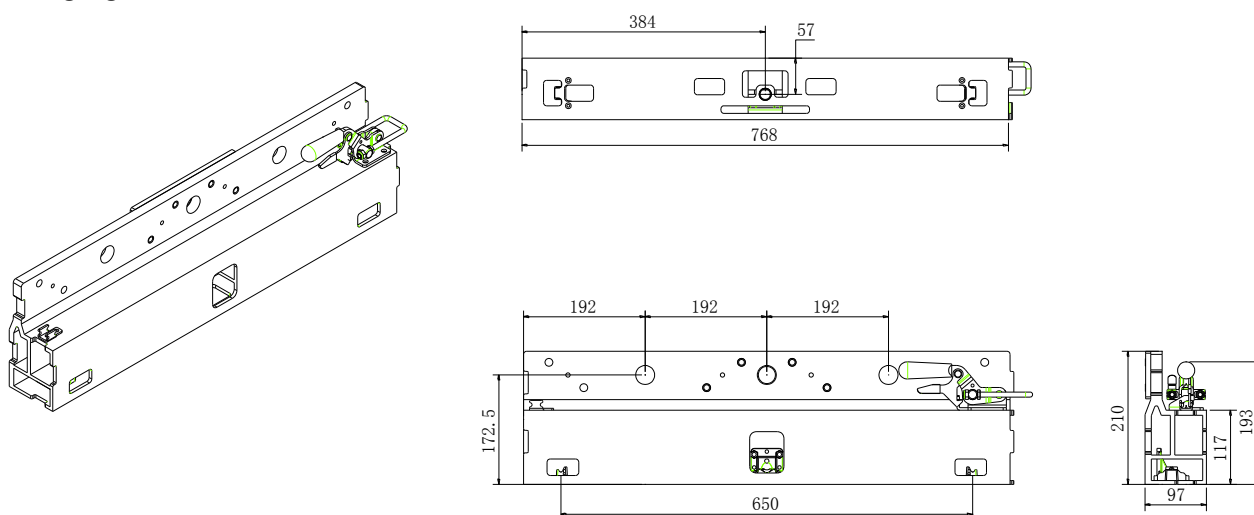


9.6 Size of the Installation Brackets / Hanging Beams

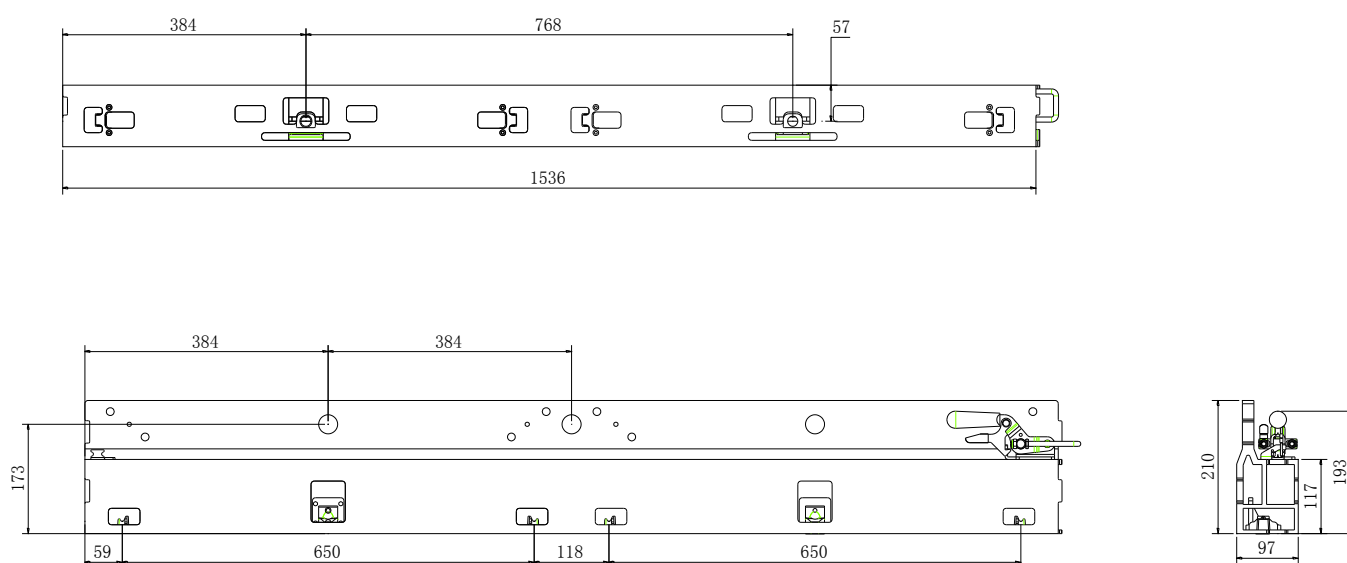
Hanging beam L=280mm



Hanging beam L=768mm



Hanging beam L=1536mm

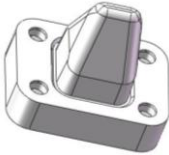
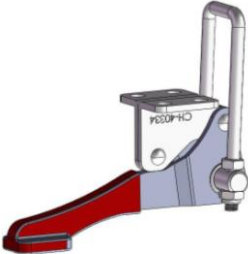
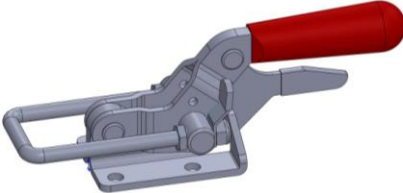
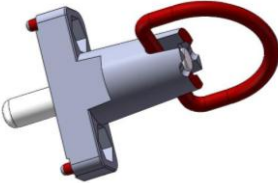
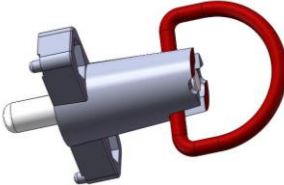


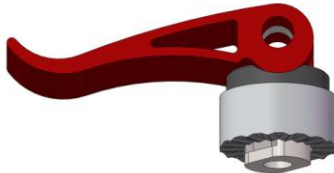
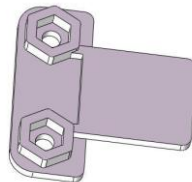
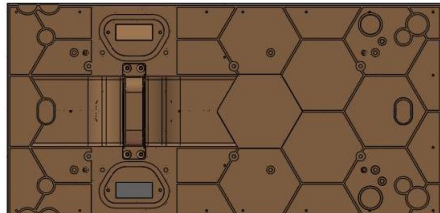
10 Appendix 2 Components

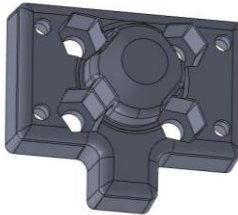
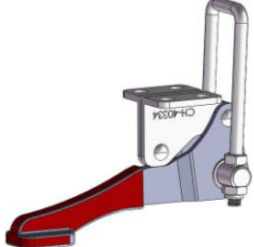
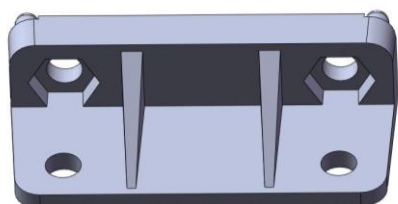
10.1 Analysis of a Pro Tour Series Cabinet

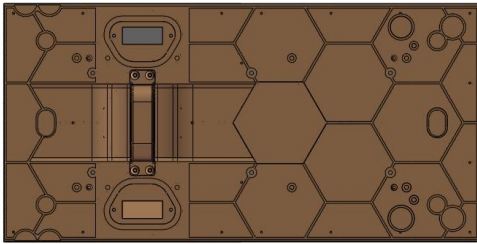
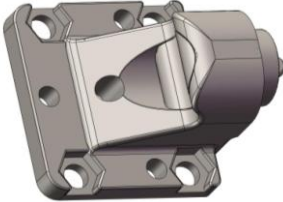
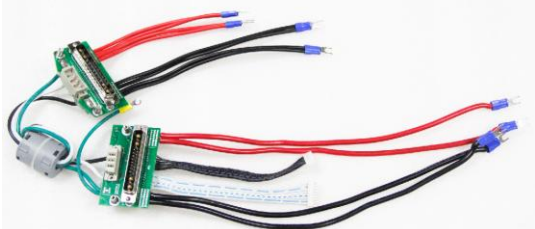


10.2 Component List of a Pro Tour Series Cabinet

item	Part number	Name	Pattern	Note
1	880-2006	Top (frame)		
2	880-2021	Top positioning pin 2		
3	880-2022	Top positioning pin 1		
4	880-2001	quick clamp L=93mm		
5	880-3006	341_r handle		
6	880-3001	Spring pin 1 (right zero positioning pin)		
7	880-3002	Spring pin 2 (left positioning pin)		
8	880-3003	Cam handle base (left pressure head)		

9	880-3004	Cam handle base (right pressure head)			
10	880-2037	V-shape keyway			
11	880-2059	40334 positioning buckle			
12	880-2040	Ø 6 lifting handle			
13	880-3005	Control box			
14	880-7102	Keyboard plate			
15	880-7101	Main controller			
16	880-60xx	Left tile		880-6001	5.33mm pitch indoor
				880-6002	6.4mm pitch outdoor
				880-6003	8mm pitch outdoor
				880-6004	10.6mm pitch outdoor
				880-6005	12mm pitch outdoor

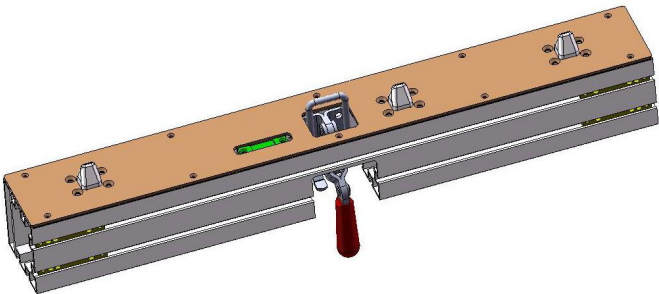
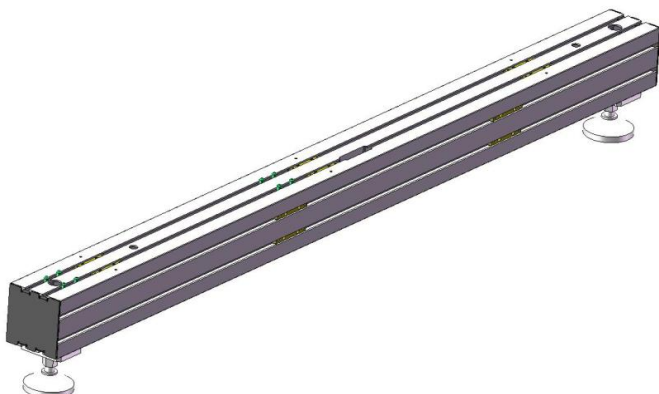
17	880-2020	Sided positioning pin		
18	880-2002	Quick clamp L=87mm		
19	880-7201	Left power supply		
20	880-7301	Plus D shape connector		
21	880-2016	Corner connector		
22	880-2529	Plate seal gasket		
23	880-7202	Right power supply		
24	880-2019	Small hook		

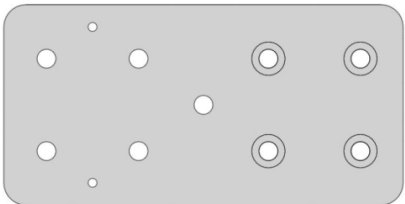
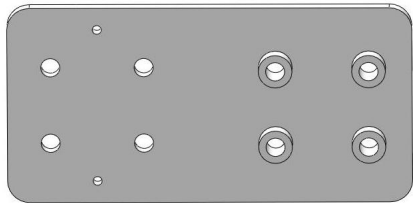
25	880-61xx	Right tile		880-6101	5.33mm pitch indoor
				880-6102	6.4mm pitch outdoor
				880-6103	8mm pitch outdoor
				880-6104	10.6mm pitch outdoor
				880-6105	12mm pitch outdoor
26	880-3004	V shape pin accessories			
27	880-2007	Bottom (frame)			
28	880-2061	Control box seal gasket			
29	880-7103	Control box bottom board			
30	880-7302	Control box cable accessories			
31	880-7303	Keyboard signal cable			

10.3 Cable List

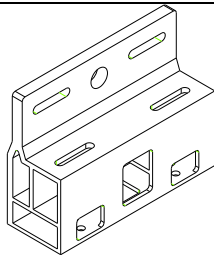
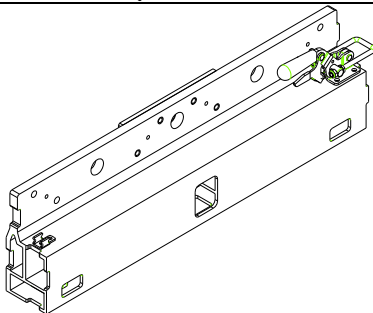
Item	Part Number	Name	Pattern	Note
1	880-7311	Power cable		L=1.2M
2	880-7312	Power cable		L=10M
3	880-7313	Signal cable		L=1.2M
4	880-7314	Signal cable		L=10M
5	880-7315	Ethernet cable		L=10M
6	880-7316	DVI cable		

10.4 Component List of Sitting Installation

Item	Number	Name	Pattern	Note
1	880-3531	Bottom Horizontal beam		
2	880-3532	Carling		
3	880-3533	Vertical beam		
4	880-2276	Needling		
5	880-2203	Needling spindle		
6	880-3104	Connecting rod		
7	880-2114	Aluminum corner supporter		
8	880-2185	Installation nut strip		

9	880-2244	Vertical beam connecting board 1		
10	880-2254	Vertical beam connecting board 2		

10.5 Component List of Hanging Beams

Item	Part Number	Name	Pattern	Note
1	880-3536	Hanging beam L=280mm		
2	880-3546	Hanging beam L=768mm		
3	880-3556	Hanging beam L=1536mm	